

Ilonka Aylward
v.
City of Charlotte
and
Charlotte-Mecklenburg Stormwater Services (a.k.a. “Charlotte Stormwater Services,”
a.k.a. “Charlotte/Mecklenburg Storm Water,” a.k.a. “Charlotte Storm Water Services,”
a.k.a. “City of Charlotte Storm Water Services”)
and
Armstrong Glen, P.C.
and
Joseph (“Josh”) H. Letourneau, P.E.

Ilonka Aylward’s Complaint

Exhibit 4

Dr. ILONKA AYLWARD, ESQ, acting *pro se*
1645 Scotland Avenue, Charlotte, North Carolina 28207
704.334.5902
draylward@carolina.rr.com

December 3, 2019

Notice of Intent to Commence Civil Action under Sections 301, 401, 402, 404 & 505
of the *Clean Water Act* and the *North Carolina Sediment Pollution Control Act of*
1973

BY CERTIFIED MAIL:

City of Charlotte
Marcus D. Jones,
City Manager
Office of the City Manager
600 East 4th Street,
Charlotte, N.C 28202

City of Charlotte
Vi Lyles,
City Mayor
600 East 4th Street,
Charlotte, N.C. 82202

Michael Davis,
City Engineer
600 East 4th Street,
Charlotte,
N.C. 28202

Charlotte Stormwater Services
Kruti Desai, PE,
Program Administrator,
Division Manager,
City of Charlotte
600 East Fourth Street,
Charlotte, N.C. 28202

Mecklenburg County
Stormwater Services
Dave Canaan,
Storm Water
Services Director
2145 Suttle Avenue
Charlotte, N.C. 28208

Dear Sirs and Madams:

Dr. Ilonka Aylward, Esq., the undersigned homeowner, acting *pro se*, hereby notifies you of her intent to commence a civil action against the City of Charlotte and the

Charlotte-Mecklenburg Stormwater Services Utility, (referred to collectively as “City&Storm”) under sections 301, 401, 402, 404 and 505 of the *Clean Water Act* (“CWA”) and *North Carolina Sediment Pollution Control Act of 1973, as amended*, sixty days from the date of this letter unless you take action described below.

In addition, I seek that City&Storm pay civil penalties of \$25,000 per day for each day of each violation, as provided by 33 U.S.C. §1319(d), as well as fines and penalties under the *Sediment Pollution Control Act of 1973*.

I ask that City&Storm desist from unpermitted (and/or in violation of the permit) discharges of dredged and fill materials in waters of the United States and from unpermitted (and/or in violation of the permit) discharges of stormwater and pollutants to surface waters, associated with the following current and threatened but imminently forthcoming activities on a tract of land known as 2813 Hinsdale Street, Charlotte, North Carolina 28210.

The threatened and violations on 2813 Hinsdale Street, Charlotte, North Carolina, are incident to the City&Storm project known as “Hinsdale-Tinkerbell Stormwater Drainage Improvement Project” with the drainage area of approximately 240 acres and current estimated cost of construction \$7,900,000.

EXECUTIVE SUMMARY



2813 Hinsdale St., Charlotte, North Carolina 28210.

My house, guarded by two retaining walls, sits on a steep slope.



The slope above the creek is very steep — up to 57 degrees effectively, — and nearly vertical in parts.

The slope is over 20 feet tall along the creek under the house.



Over decades, storm water has been shooting at my bank from an illegally designed outfall, causing erosion.



US Army Corps of Engineers:
**DO NOT ANGLE STORMWATER PIPE AT
90 DEGREES TO THE RIGHT BANK!
(EROSION)**

On the left culvert wing wall, downstream part of Hinsdale Street culvert, there is a stormwater outfall designed faultily, and in violation of Clean Water Act: storm water hoses at right bank (where my house sits) at 90 degrees, and shoots water with such force that it undercuts the bank below.

U.S. Army Corps of Engineers warned Stormwater that existing outfall design, where stormwater shoots at 90 degrees across the creek, is faulty. Less than two hours after receiving directions from the U.S. Corps of Engineers, Charlotte-Mecklenburg Stormwater Services ("the CMSWS") secretly agreed between themselves to ignore the U.S. Corps's instruction.



The suffering slope has severe erosion, — “severe” being the official erosion grade determined by Channel Stabilization Assessment Report by *Wildlands Engineering* (hired by SMSWS).

The red and yellow on my land mean “severe” and “mild” erosion, respectively.

Since 2014, City of Charlotte and CMSWS has been working on “Hinsdale-Tinkerbell Storm Drainage Improvement Project.” The project covers 240 acres, and has a \$7,900,000 budget.



One of the project's stated goals is to “address stream erosion.”

On Hinsdale Street, the illegal stormwater outfall and the entire culvert — 84-inch round pipe with flared wingwalls cutting high & deep up the slope (shown

here) will be ripped out and replaced with a 12x7 “bottomless” culvert.



Stormwater flow will be increased by redirecting large additional flow from wider areas. CMSWS plans to **replicate** the 90 degree direction shooting at opposing bank in their new outfall. The only difference will be the increased flow.

Also, as shown with red arrows here, CMSWS plans to grade the steep slope above and downstream of the culvert, and far downstream, beyond construction area proper, in order to...

store heavy, vibrating machinery on steep slope over 20 feet tall.

CMSWS land-clearing plan includes:

removing trees, shrubs, vegetation cover with mechanized excavation activities,

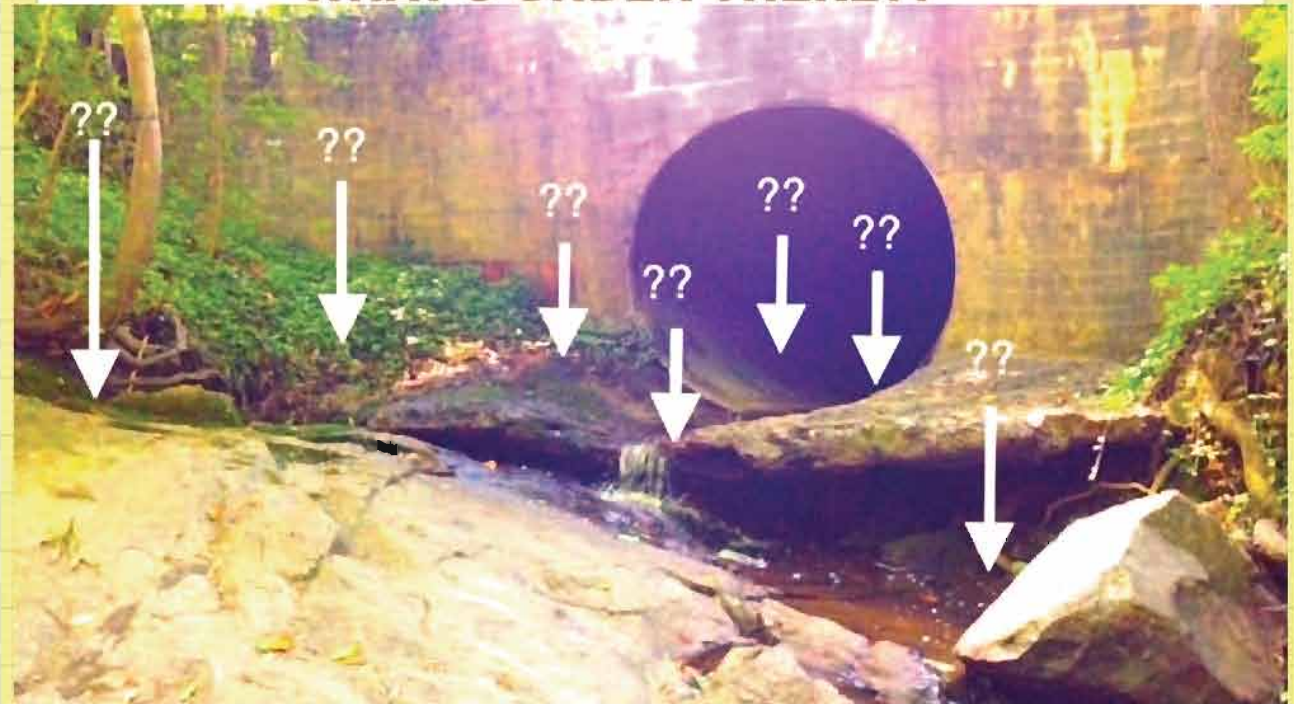
extensive grading at prohibited angles 1.5:1), heights (over 10 ft) and without a buffer,

permanent change of bank contours,

destabilizing stream bank with heavy vibrating mechanized equipment and machinery,

— all in violation of the Clean Water Act and Sediment Pollution Control Act of 1973

**STORMWATER SERVICES
DID NOT TEST SOIL UNDER THIS CULVERT
WHAT'S UNDER THERE??**

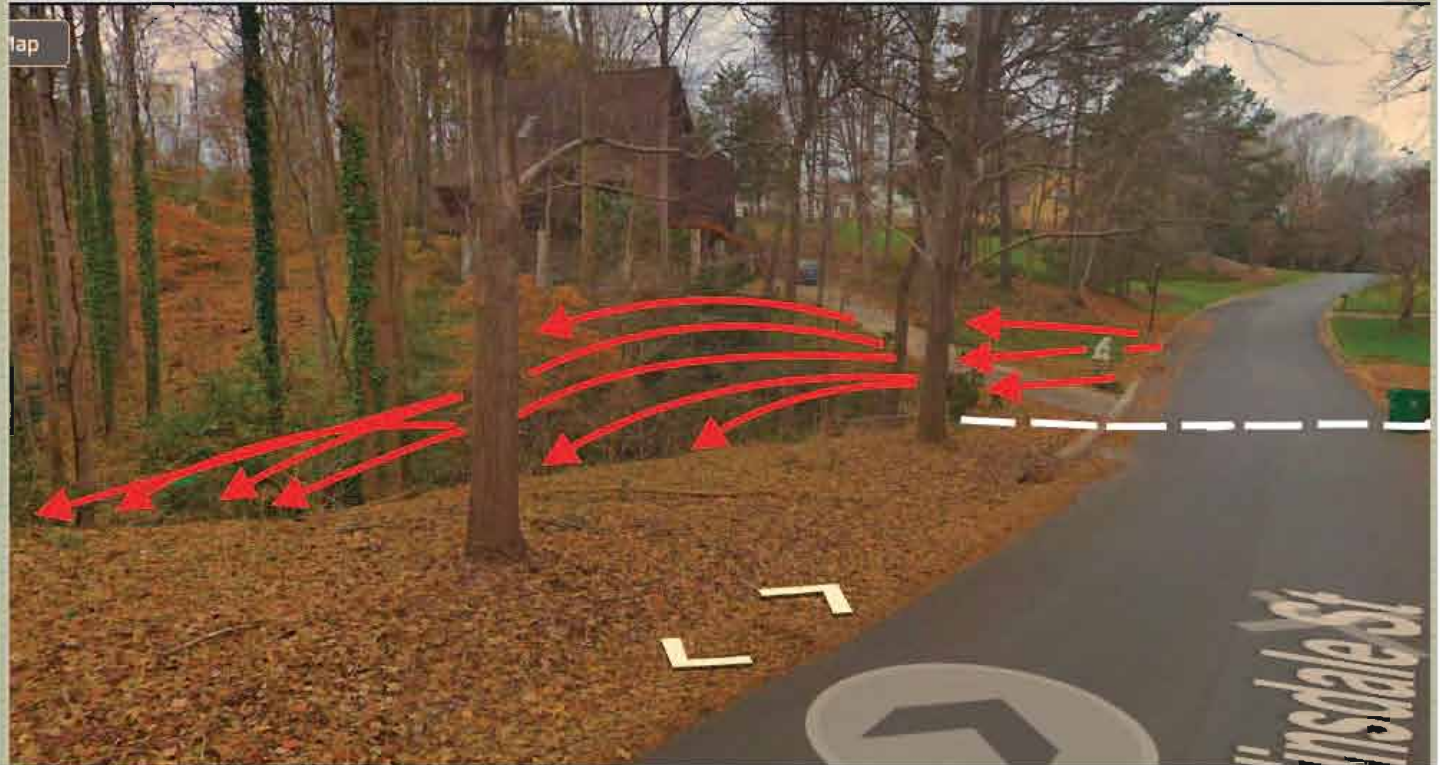


In contravention to Armstrong Glen Engineering and U.S. Army Corps of Engineers, CMSWS plans to construct Hinsdale culvert blind: without any prior soil analysis or Plan B in case there is no bedrock under the existing culvert pipe.

Additionally, U.S. Army Corps of Engineers warned CMSWS against blasting bedrock in the stream — but this warning also fell on deaf ears (more about this later in the Letter.)

I sought review of CMSWS's project by an independent municipal engineering firm, Diamond Engineering — and received a predictable report: slope failure and damage to the foundation of the house will likely result.

GRADING AND STORING MATERIAL AND EQUIPMENT IN THIS AREA WILL DESTROY THE EXISTING STABLE VEGETATION AND STRUCTURES...



Ensuing erosion is in violation of *Clean Water Act* and *Sediment Pollution Control Act of 1973*.

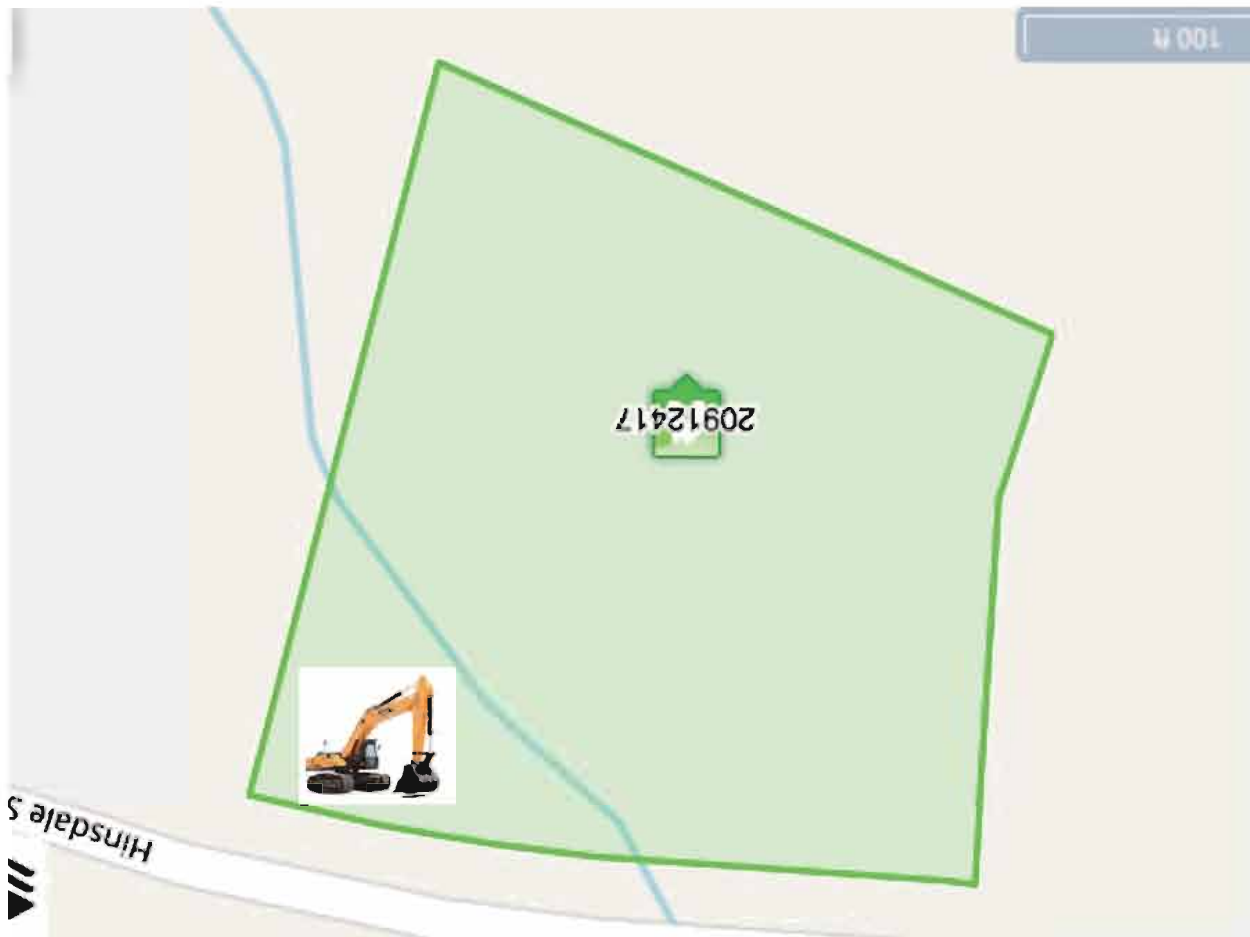
Importantly, there is no need to grade steep slope and cause erosion:

An easier access to construction site from left stream bank is on my land, and I am happy to grant access.

Diamond Engineering said so in its report.



I forwarded to CMSWS alternative designs which is safe, in compliance with Clean Water Act, and cheaper (See Diamond Engineering reports **Attachments 2A and B**)



Construction equipment icon marks part of the land where it is safer to keep equipment and materials and enter the construction zone.

CMSWS has not received (and, as far as I know, not applied for) the necessary permits from U.S. Corps of Engineers, NCDEQ-DEMLR, and Clean Water Certification.

CMSWS did, however, schedule City Council meeting to request that City of Charlotte use its eminent domain powers to take my

landowner's right to control and reign in CMSWS threatened unpermitted land-disturbing activity.

Under Section 505 of the Clean Water Act, and under *North Carolin Sedimentation Pollution Control Act of 1973* §113A-66, I have standing as a private citizen who suffered “injury in fact” — an invasion of legally-protected interest.¹

This suit is timely because injury does not have to be a fait accompli. A threatened injury is sufficient to confer standing. *Friends of the Earth, Inc. v. Gaston Copper Recycling Corp.*, 204 F.3d 149, 160 (4th Cir. 2000).

The following applies not just to me but has important implications for all citizens of Charlotte

Although CWA and *North Carolina Sediment Pollution Control Act of 1973* empowers citizen landowners of North Carolina to control erosion of their own land...

Although under the law of our State, unless land-owner **knows** and **consents** in writing to an erosion and sedimentation control plan, nobody can disturb his land. N.C. Gen. Stat. 113A-54.1(a)
...

¹ *Driscoll v. Adams*, 181 F3d 1285 (11th Cir. 1999) (standing under Clean Water Act where stormwater polluted with mud, sand and silt discharged into a stream running to the ponds of plaintiff's property); *Sierra Club v. SCM Corp.*, 580 F. Supp. 862 (1984); *Ecological Rights Foundation v. Pacific Lumber Co.*, 230 F.3d 1141, 1152 (9th Cir. 2000). (holding that plaintiff does not have to prove environmental degradation to obtain standing. Damage to individual's aesthetic or recreational interests is sufficient for standing.)

City&CMSWS's practice is to **take easements on private land first, then decide what to do on the land.**

Maybe City&CMSWS will obtains the permits. Maybe it will proceed in violation. City&CMSWS practice is that land-owner is not allowed participate in his own land-disturbing plan, or even to be timely informed. Without FOIA, I would not know of U.S. Army Corps of Engineer's objections.

In my case, City&CMSWS's design is clearly in violation of all permit conditions, CWA and State Act.

Earlier this year, CMSWS falsely represented to me that permits were already received. They were not then and, to my knowledge, are not now.

This practice of "take easements first, get permits maybe later" should be changed. City&CMSWS should obtain all permits before eminent domain power takes private land.

To sum up, my requests are:

In the forthcoming Hinsdale-Tinkerbell Project on 2813 Hinsdale Street, Charlotte, North Carolina, 28210,

- **all CWA permits must be received before my land is taken, and I retain all owner's rights under 113A-54.1(a) and Clean Water Act, including being copied on all correspondence that concerns my land**

- **storm water outfall on left bank be redesigned, so that the run-off velocity and angle of the falling water no longer erodes the right bank**
- **right bank erosion that already happened be remediated**
- **culvert wings be redesigned to follow the bank, not cut into steep slope of the bank. culvert wing not be pushed back to the street, and not shortened**
- **on right slope, no grading above culvert and no grading downstream of the culvert**
- **no machinery or equipment stored (or traveling) on the right, steep bank of the creek**
- **no dynamite blasting**

For over a year, I tried to reason with CNSWS and City representatives, and ask them to refrain from threatened violations.

The only answer I received was “You’ll never prove it!”

I am, therefore, forced to bring a lawsuit under Clean Water Act and *North Carolina Sediment Pollution Control Act of 1973, as amended*.

ATTACHMENTS, DEFINITIONS & EXPLANATIONS:

Attachments 1A and B are maps of threatened construction on 2813 Hinsdale Street, Charlotte, North Carolin. Both maps were drawn by CMSWS.

Attachment 1A is the (penultimate)¹ project design provided to me by the Hinsdale-Tinkerbell Project Manager Mr. John Keene, with CMSWS.

Attachment 1B is the project design provided by Daryl Hammock after I complained to the Charlotte City Engineer. CMSWS arbitrarily and capriciously increased grading at lease 7 times. Plainly, the threatened grading area is increased at least 7 times.

Attachements 2A and 2B are reports prepared by *Johnny Denton, P.E., PLS*, owner of *Diamond Engineering, PLLC*.

Attachment 3. Sewer alignments — red straight line proposed by Diamond Engineering; sig-zags are by CMSWS.

Qualifications and Affiliations of the Engineering Firms Mentioned in the Letter

Diamond Engineering PLLC is a consultant I employed to help me understand the CMSWS Project on my land.

Diamond Engineering PLLC serves as the Town Engineer for the Town of Dallas and consults with other municipalities and government agencies.

Mr. Johnny Denton, P.E. and *Diamond Engineering PLLC* specialize in municipal and civil engineering design, municipal engineering consulting, site design and

¹ First design included a 12 foot deep sewer manhole cut into steep slope under my house at 24 feet high. SMSWS eventually agreed that this sewer position was unsafe for construction because it exceeded the minimum steepness requirement of the feet horizontal travel per foot vertical rise.) First design had the sewage line cross from left (flatter and lower, opposite to my house) bank, cut through bedrock (which required dynamite blasting) to get to the the manhole on the right bank cliff right under my house foundation, only to then hop back to the left bank of the creek. After consultation with Diamond Engineering, City&Storm presented a second design. The sewage does not cut right under my house. It does hop left-right-left across the creek, but the “hops” are lower downstream, where the terrain is less steep. See **Attachment 3** for sewer odyssey representation.

subdivision planning, water and sewer design, storm water design and management, flood studies, erosion control, earthen dam design and breaching, roadway design and also improvements such as sidewalk and curb and gutter, park design and planning, and construction inspection and hydrology flood studies. Serving as a Town Engineer himself, Mr. Denton is more than qualified to offer his opinion on basic mistakes and violations of the plans complained of here and to offer competent redesign options.

Reports of Diamond Engineering provide, *inter alia*, an opinion that construction, as planned by City&Storm, will result in slope failure and erosion.

Diamond Engineering letters also provide direction for sustainable redesigns, which complies with engineering standoffs and practices, State and Federal laws, **and cost less.**

Armstrong Glen, P.C. is an engineering consulting team hired by City and/or CMSWS who did all the work on the Project

Wildlands Engineering is an engineering firm hired by Charlotte Mecklenburg County Stormwater Services to walk the area and describe erosion in the stream, i.e. Channel Stabilization Assessment Report.

“City” means City of Charlotte

“CMCSWS” means Charlotte Mecklenburg County Stormwater Services

“City&Storm” means City of Charlotte and Charlotte Mecklenburg County Stormwater Services

“Project” means *Hinsdale-Tinkerbell Stormwater Drainage Improvement Project* with the drainage area of approximately 240 acres and current estimated cost of construction \$7,900,000 and stated goal of, *inter alia*, addressing stream erosion.

All discussion, arguments, attachments contained in one subsection of this Notice are incorporated by reference as though restated in all sections of this Notice.

UNPERMITTED DISCHARGE OF DREDGED AND FILL MATERIAL IN WATERS

Discharges of dredged and fill material that are not in compliance with Clean Water Act are prohibited. A discharge of dredged or fill materials into navigable water requires a permit from United States Army Corps of Engineers. FWPCA 404(a), (d), 33 U.S.C. 1311(a).

Compliance with the conditions of the permit are also required. FWPCA 404(p), 33 U.S.C. 1344(p).

The discharge of dredge includes additions to the water “incidental to mechanized land clearing ... or other excavation.” 33 C.F.R 323.2(d)(1)(iii); see 33 C.F.R. 323.2(d)(2)(1) (including “earth-moving activity.”)

“Any discharge of dredged and fill material into the navigable waters incidental to any activity having as its purpose bringing an area of the navigable waters into a use to which it was not perviously subject, shall be required to have a permit under this section.” 33 U.S.C. §1344(f)(2).

“Navigable,” as used in the Act, is of limited import, and ditches, canals, as well as streams and creeks, have been interpreted by the courts as “navigable waters of the United States.” In any event, there is no dispute that the unnamed creek at issue is jurisdictional.

City&Storm has not applied for or obtained a permit, and its construction designs violates Section 404 of Clean Water Act in several respects, at least three of which U.S. Army Corps of Engineers already pointed out to CMSWS in preliminary review. City&Storm ignores U.S. Army Corps of Engineer’s warning and persists in its illegal design.²

I. Land disturbing activity on steep slope violates CWA 404

² I understand that City&Storm might argue that it will proceed under Regional General Permit. However, the threatened design violates conditions of the permit, and the U.S. Army Corps of Engineers already warned CMSWS, as described in this letter. Also, based on intra-office correspondence, City&Storm recognizes that Nationwide Permit may be necessary based on the size of the project, and, based on the individual challenges involved in Hinsdale Culvert specifically, it may even need an individual permit.

Right bank of the unnamed creek as it runs through the subject plot 2813 Hinsdale Street, is tall, steep, and very eroded. City&Storm's threatens unpermitted land disturbance of this steep slope — complete land clearing (removing trees, shrubs, vegetation cover) by mechanized excavation activities, extensive grading, permanent change of bank contours, destabilizing stream bank with heavy mechanized equipment and machinery, on the strip over 20 feet high along the creek bank within a few feet from the house foundation, — plus, dynamite blasting in the stream.

I request that City&Storm refrain from disturbing the steep slope located above and beyond the Hinsdale culvert, because this grading is not only unpermitted and, therefor, illegal, but also arbitrary and capricious: the grading is totally unrelated to the purported reconstruction of Hinsdale culvert.

City&Storm's project plans a change to bank contours and discharge of dredged and fill material into the navigable waters. That is in violation of Section 404 of Clean Water Act.

The steep slope in question reaches over 20 feet (depending on the part of the slope.) Effective slope rate is 1.5:1, but some parts are vertical.

Diamond Engineering PLLC concluded that “the steepness of this slope makes any construction in this area... subject to erosion and slope failure... the probability of soil settlement either during or after construction is significant.” **Attachment 2A**

Diamond Engineering explained that basic engineering principles (which are, incidentally, incorporated into all permit requirements) do not allow grading this slope.

Diamond Engineering wrote that while the subject the slope is 1.5:1, “[a] maintainable maximum slope for soils in the piedmont of North Carolina is 2:1. Slopes steeper than 2:1 are subject to slope failure and erosion due to inability to obtaining and maintain an adequate ground cover.”

Diamond Engineering concluded that subject slope is “unstable;” that “grading in this area will destroy the existing stable vegetation and structure;” and that storing heavy machinery on the slope, as per City&Storm's plan, is not an option.

But City&Storm is welcome to store on the left bank of the creek, which is also my land.

Bank erosion, slope failure, inability to obtain vegetative cover will result from City&Storm's threatened unpermitted land disturbing activity and will necessarily result in discharges of dredged and fill material, — all in violation of sections 301 and 404 of the Clean Water Act without permit or in violation of permit.

Threatened land-disturbing activity is arbitrary, capricious, **and retaliatory**, because CMSWS purposefully increased land-grading area which will destroy the counters of the slope and vegetative cover at least seven times after I went over the head of Stormwater Project Manager and complained to the Charlotte City Engineer. Additional grading is right under the house foundation and along the creek.

The insert here shows a close-up of grading threatened by CMSWS in early 2019, as compared to after I complaint to City Engineer in late 2019. The area to be graded is increased at least 7 times.

Note that *Department of the Army Regional General Permit* specifically commands: "Tree and shrub cover along the stream should be retained as much as possible in order to stabilize the stream banks."³

Also, U.S. Army Corps of Engineers warns that the their permit "does not authorize injury to the property or rights of others."⁴ The proposed plan, and especially the retaliatory additional grading clearly show intent to cause injury to house foundation.

II. Unnecessary dynamite blasting of bedrock in the stream violates CWA 404. US Army Corps of Engineers, acting in preliminary review of the project, warned against unjustified blasting. I provided a safer, cheaper design that does not call for dynamite blasting.

³ *Department of the Army Regional General Permit* para (p) at 5.

⁴ *Department of the Army Regional General Permit* para (j) at 7.

Grading *before* I complained

**> 10 feet
&
steeper than
2:1**



Grading after I complained

>10 ft &
steeper than 2:1 &
7 times larger
area



In 2019, the U.S. Army Corps of Engineers became aware of the threatened dynamite blasting of bedrock in the creek, and emailed to warn City&Storm that unjustified blasting would not receive the 404 permit.

U.S. Army Corps of Engineers further warned City&Storm that “blasting has potential issues, including fracking and loss of stream flow.” It then requested assurances that City&Storm **would receive proper permits.**

City&Storm did not respond, and has not changed the design.

The threatened dynamite blasting in the creek and on the bank downstream from Hinsdale culvert is unjustified for this reasons:

Blasting is part of City&Storm’s plan to cut through the bedrock in the creek, so they can bury a sewage pipe (it is now aerial).

The sewage pipe in question unnecessarily zigzags from left bank to the right bank, and back to the left bank.

As it happens, there is no justification for the sewage pipe zig-zagging at all, and therefore, no need for bedrock blasting.

Sewage pipe can easily run straight down the left bank. This simple and cost-efficient design has been prepared at my expense and presented to CMSWS by Johnny Denton, PE, of Diamond Engineering, an engineering firm that serves as Town Engineer for the Town of Dallas itself. Mr. Denton has extensive experience and engineering expertise in municipal, hydrological, water and sewer design, storm water design and management, flood studies, erosion control. **See Attachment 2A and 3.**

City&Storm rejected the cheaper, safer, professional design that satisfies Clean Water Act, and continues with its designs that violate the Act by unnecessary blasting.

I request that it desists and lay the pipe straight, or at least lay it straight far enough downstream where bedrock ends and no blasting is required. Mostly, this can be done on my land.

III. Existing Stormwater pipe outfall is directed at 90 degrees at the opposite bank. This has caused “severe” erosion and bank undercutting. City&Storm has been already warned by US Army Corps of Engineers that this is a design defect. City&Storm threatens to replicate the same defect in the new culvert it plans to build.

Presently, downstream of Hinsdale culvert, a stormwater pipe drain discharges at nearly 90 degrees to the opposite (right) bank, the bank where my house sits. This has caused and continues to cause erosion, sedimentation, and bank undercutting.

In 2019, I made U.S. Army Corps of Engineers aware of this design defect.

The Corps agreed it was a problem, and contacted CMSWS, to warn that redesign was warranted. Outfall, — warned the Corps, must “not come in a 90 degree angle to reduce potential erosion on the opposite bank.”

Nor can stormwater fall “perpendicular to the stream.” US Army Corps of Engineers advised CMSWS to “consider potential impact of directing storm flow across the stream.”

In response, CMSWS falsely represented to the U.S. Army Corps of Engineers that their planned new construction would correct this violation.

However, CMSWS’s intra-office emails (which I received by FOIA request) revealed the falsehood: the very same morning (May 23, 2019) when CMSWS promised to the U.S. Army to redesign so that the outfall does not cut the opposite bank, they promptly agreed between themselves to ignore the U.S. Corps’s recommendation. Among the reasons was unwillingness to redesign again.”

U.S. Army Corps, on its part, was not looped in at least as late as June 13, 2019: “I asked if they would be able to change the angle of the storm water pipe so that it is not at a 90 degree angle to the stream which should help directly storm flow downstream and away from the opposite bank. ...once the plans come if with the permit request we can review those to see if this revision has been made, and if not follow up with the City at that time.”

Currently, the existing stormwater outfall continues undercutting the steep slope, in continuing violation of the Acts, and the design for the new outfall remains uncorrected, in threatened violation of the Acts.

In sum, City&Storm conspired to replicate the existing violation and to ignore and mislead the Agency.

The continued erosion and bank undercutting has resulted and will continue to result in unpermitted discharge of dredged and fill materials, including sand, silt, dirt, debris, and sedimentation, all in violation of Section 404 of the Clean Water Act and of North Carolina law.

IV. Threatened “Blind” Culvert Construction is Unpermitted and Violates Conditions of the Permit

As already explained, City&Storm plans to rip out existing Hinsdale culvert, an 84 inches round pipe with wing walls, and put in a “bottomless” 12 by 7 feet culvert, hoping that the bottom of the creek is fully stabilized by bedrock.

Creek bed downstream of culvert is, indeed, bedrock, but is impossible to know what's *under* the existing culvert and flume.

Clean Water Act does not allow bottomless culverts unless there's bedrock. City&Storm's own engineers, ArmstrongGlen, advised that at Hinsdale culvert, geotechnical investigation is required, boring at each end of culvert, to find out what soil is under there. ArmstrongGlen engineers further warned CMSWS that soil data was necessary to design wing wall and footings of headwall.

City&Storm ignored its own engineers.

Perhaps significantly, Hinsdale culvert was specifically singled out. All the necessary soil tests were performed at every other culvert of the Hinsdale-Tinkerbell multi-culvert Project, — but not at the Hinsdale culvert. SMSWS even pressed me to perform soil tests in my back yard — but has not done them at the culvert wingwalls. What is it afraid to find under the existing culvert, and why does it wasn't to build blind?

Building blind did not sit well with the U.S. Army Corps of Engineers, either.

In September of 2018, the U.S. Army Corps of Engineers conducted its pre-application field review. At the conclusion of review, the U.S. Corps of Engineers

became concerned: *what if there is no bedrock underneath?* (Note that, per 404 permits, culverts must ordinarily be buried to minimize destabilization.)

U.S. Army Corps of Engineers marked in her notes:
“...recommended stabilization measures if they pulled out culvert and fume and no bedrock. Would probably require modification in that case.”

U.S. Army Corps of Engineers then asked CMSWS to come up with “Plan B,” in case there is no bedrock underneath — a request which City&Storm ignored, in the same way it ignored its own engineers, and in the same way they ignored applying for permits.

In addition to the soil tests, the wide-winged shape of culvert is an issue on this steep slope.

CWA Section 404 Permits makes very specific requirements of the shape, position, stabilization measures of the culverts, — depending on the stream. Three-sided culverts are only allowed if they can not be buried. Culverts width must be “comparable to the width of the stream channel,” and not wider. In contrast, the existing wing wall is so wide that it cuts into the steep slope, causing land-disturbance in violation of Section 404 of the Clean Water Act. Culvert designed by City&Storm is significantly wider than the stream, in violation of conditions of the permit, and will cause destabilization and disturbance of stream bank.

A redesign of culvert wing wall to run along the stream, instead of cutting into the slope was prepared at my expense by Diamond Engineering. See **Attachment 2B**.

I request that culvert reconstruction complies with the provisions of Clean Water Act, that necessary soil samples be analyzed before construction starts, that plan and plan contingencies requested by the U.S. Army Corps of Engineers be properly submitted for permitting process and that City&Storm desists from “just winging it” with Hinsdale culvert, in violation of Clean Water Act 404. I also request that culvert is designed in such a manner so to stabilize the highly eroded slope of the creek along the stream. Faulty stormwater outlet eroded the bank, and I request remediation.

UNPERMITTED DISCHARGE OF STORMWATER AND POLLUTANTS AND DISCHARGE IN VIOLATION OF THE PERMIT

Sections 301 and 402 of the Clean Water Act prohibits discharge of pollutants, without a NPDES permit. 33 U.S.C. §1311, 1342(p)⁵. “Discharge of pollutants” means, inter alia, “any addition of pollutant to navigable waters from any point source.” 33 U.S.C. §1362(12).

Stormwater is a pollutant (or contains pollutants) within the meaning of the Act. “When rain water flows from a site where land disturbing activities have been conducted, such a grading and clearing, this water is a pollutant under the CWA” *North Carolina Shellfish Growers v. Holly Ridge Assocs., LLC*, 278 F. Supp 654, 678 (E.D.N.C. 2003) Sediment, which is primarily composed of sand and dirt, is a pollutant with the meaning of Clean Water Act. See *Driscoll v. Adams*, 181 F.3d 1285, 1291 (11th Cir. 1999) (sand, silt, mud in stormwater are pollutants.)

As a corollary, an NPDES permit is required for stormwater discharges associated with construction activities, including clearing, grading, and excavation of one acre and more, including project less than one acre which is a part of a larger common plan.⁶

On the subject tract, which is part of a 240 acre common plan and development, City&Storm threatens discharge of storm water without NPDES permits, in violation of Clean Water Act and discharges storm water in violation of Clean Water Act.

City&Storm is threatening to violate the Act by grading without NPDES Permit, in violation of Discharge Permit conditions and in violation of North Carolina Sediment Pollution Control Act of 1973, as amended

⁵ The National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Program is mandated under the federal Clean Water Act. In North Carolina, the EPA has delegated MS4 Program oversight to the Department of Environmental Quality (DEQ), Division of Energy, Mineral, and Land Resources.

⁶ See also 40 C.F.R. 122.26(b)(14)(x) and (15)(i) including small projects that are part of the common plan.

For City Municipal Projects, enforcement and permitting of the Clean Water Act (including the implementation of Construction Site Stormwater Runoff Control Project), lies directly with the State.

Thus, City&Storm is prohibited from construction without obtaining 402 permit from North Carolina Department of Environmental Quality, Division of Energy, Mineral and Land Resources (NCDEQ-DEMLR).⁷

City&Storm has not applied to NCDEQ-DEMLR for a Permit to Conduct Land Disturbing Activities, a.k.a. grading plan.

Not only City&Storm is threatening to grade without a permit, but its threatened grading project (**Attachments 1A or 1B**) is in violation of the Clean Water Act and contrary to the Best Management Practices (BMPs) mandated by a Discharge Permit⁸ for land-disturbing activity, as well as in violation of North Carolina Sediment and Pollution Control Act of 1973.

While all large area grading is strictly regulated by Section 402 of the Clean Water Act, steep slope disturbances especially must be “minimized.” 40 CFR 450.21(a)(4)

Grading on the subject slope violates Clean Water Act and *North Carolina Sediment Pollution Control Act of 1973* because, among other things, it exceeds the allowable parameters — both in steepness angle and the height.

⁷ See *Discharge Permit Section E(2.)(d) at Part II, page 5; City of Charlotte NPDES MS4 Permit Renewal Application and Stormwater Management Program Report. Permit NCS000240 August 2017. Section 6 at 20, Section 7.4.5 at 39.*

⁸ Under the authority of the Federal Clean Water Act, State of North Carolina Department of Environmental Quality Division of Energy, Mineral, and Land Resources, issued to the City of Charlotte Discharge Permit NCS000240, (“Discharge Permit.”)

Current Discharge Permit is issued October 10, 2018, expires October 9, 2023.

Discharge Permit NCS000240, contains applicable requirements and hurdles for “land-disturbing activities,” i.e. grading, which are in the Permit itself and in the laws incorporated by reference: *Clean Water Act, the Sediment Pollution Control Act of 1973, Chapter 4 of Title 15 of the North Carolina Administrative Code and Clean Water Act, and all the Federal Law including but not limited to Clean Water Act.* Noncompliance with the conditions of the Discharge Permit constitutes a violation of Clean Water Act. (Discharge Permit at 27)

Maximum steepness for “[a]ll graded creek banks and slopes shall be at a maximum of two (2) feet horizontal to one (1) foot vertical (2:1) and not to exceed 10 feet without terracing...”⁹ In contrast, subject slope is steeper (1.5 to 1 instead of 2:1) and taller (over 20 feet instead of prescribed maximum of 10) — this is undisputed.

Johnny Denton, P.E. of Diamond Engineering reviewed threatened grading and concluded that “grading in this area will destroy the existing stable vegetation and structure,” the slope is “subject to slope failure and erosion due to the inability to obtaining and maintaining an adequate vegetative cover.” (**Attachments 2A and B**)

Consequently, the threatened grading violates Discharge Permit’s mandate that “[t]he angle for graded slopes ... shall be no greater than the angle that can be retained by vegetative cover or other adequate erosion-control devices or structures.” N.C. Gen. Stat. § 113A-57(2)¹⁰ (note that land disturbing activity are mandatory); *Code of Ordinances, City of Charlotte*, Section 17-33

Nor does City&Storm’s current grading design provide **any buffer** along the creek, as mandated by N.C. Gen. State § 113A-57(1).

Without control measures, the threatened grading will cause erosion and, as a result, ongoing discharge of pollutants, including sediment, sand, rock, dirt, eroded soil, debris, pollutant laden storm water and other substances into the waters of United States. I, therefore, request that City&Storm desist from this unsafe and illegal grading.

In accordance with the requirements of the establishing Section 402(p)(3)(B)(iii), Discharge Permit requires “controls to reduce the discharge of pollutants to the maximum extent practicable, including management practices, control techniques and system, design and engineering methods...” As shown above, City&Storm’s not only has no permit but also has a plan that the requirements of the permit.

⁹ *Charlotte Land Development Standards Manual, Charlotte Engineering and Property Management, Revision 18, January 31st. 2019 II(A)(10)* instructs:

¹⁰ Discharge Permit requirements incorporate by reference North Carolina *Sediment Pollution Control Act of 1973* and *City of Charlotte Soil Erosion and Sedimentation Control Ordinance* Thus, non-compliance with the Sediment Pollution Act and the City Ordinance results in violation of the permit and, consequently, violation of Section 402 of Clean Water Act.

Existing and threatened Stormwater stormwater outfall is directed at 90 degrees at the opposite bank and has already caused erosion and bank undercutting in violation of State law and the Clean Water Act. U.S.

Army Corps of Engineers warned City&Storm against this design

Storm water outlet is a “point of discharge” and it is illegal to operate it without a NPDES permit. Clean Water Act 301, 402. “Every point source discharge is prohibited unless covered by a permit, which directly subjects the discharger to the administrative apparatus established by the Congress to achieve its goals.”

Storm water outlet design is faulty: it erodes the opposite bank and deposits solids in surface waters. U.S. Army Corps of Engineers already warned City&Storm against replicating this faulty design as violating CWA 404. It also is in violation of CWA, and I request that this design be remediated and not replicated in the new construction.

III. Violation of water quality standards

Section 401 of the CWA requires a certification by the State in which a discharge originates that the construction or operation of facilities, which may result in any discharge into the navigable waters, comply with state water standards. 33 U.S.C. §1341(a). Under North Carolina law, a permit is required to “cause or permit any waste, directly or indirectly, to be discharged to or in any manner intermixed with waters of the State in violation of the water quality standards applicable to the assigned classification...” N.C. Gen. Stat. §143-215.1(a)(6)

I understand that City&Storm has neither applied for, nor received any Certifications and threatens to proceed to construction without permit or in violation of the permit. At a minimum, 4147 Certification is required, if operating under Regional General Permit No. 2016-00163 (RGP 163), “CSWS Stormwater Projects.

Excavation, land clearing, disturbing vegetation, eroding steep slope, relocation and redeposit of dredged and fill material, grading without a buffer, position of the outfall that continuously erodes the bank and send sedimentation into the stream is in violation of Clean Water Act, and water quality standards.

The last condition mentioned — directing storm water source at ninety degree angle to the opposite creek bank and eroding soil and sand has resulted and will continue to result in sediment in the water. This condition remains unremediated.

Unstabilized, oversized culvert and unjustified blasting, threatened by City&Storm's current plan, likewise, is not only without certification but in violation of certification standards.

With respect to the subject plot,

I request that City&Storm cease and desist from all activities that result in discharge of dredged and or fill material or pollutants into surface waters without permits, and in violation of the permits:

from illegal land-clearing and grading, blasting, destroying steep slope by heavy equipment, and from . Please consult Attachment 1 A and B.

from illegal culvert construction

from illegal stormwater discharge that erodes the bank and causes erosion

from land-disturbing activities without approved erosion and sedimentation control plan for in violation of such.

I further request that City&Storm correct ongoing violations of the Clean Water Act which have resulted from unpermitted discharge of stormwater and pollutants and the violation of water quality standards.

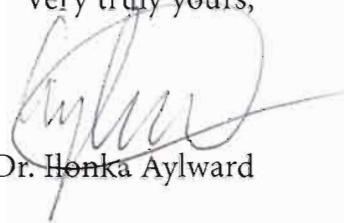
please consult page XV of Executive Summary, above and maps in Attachment 1A&B for the particulars.

The stated purpose of Hinsdale-Tinkerbelle project is, inter alia, to **address stream erosion**. I request that Cit&Storm do just that — remedy the existing violation, ameliorate the slope failures, and redesign their construction plan so it comports its the Acts.

In accordance with the Clean Water Act, § 33 U.S.C. 1365(b)(1)(A), 40 C.F.R. § § 135.1-135.3 and *Sediment Pollution Control Act of 1973*, this letter serves to notify

you that I intend to file suit in federal district court to enjoin the threatened violations and correct ongoing violations described above, ensure compliance with federal and state law, obtain civil penalties, recover attorney fees and costs of litigation, and obtain other appropriate relief. If you would like to discuss the issues identified in this letter, correct any facts stated in this letter which you deem inaccurate, or offer a proposal for resolving these issues, please feel free to contact me.

Very truly yours,



Dr. Honka Aylward

Cc: (by certified mail, return receipt requested):

Andrew R. Wheeler, Administrator,
U.S. Environmental Protection
Agency
USEPA Headquarters
William Jefferson Clinton Building
1200 Pennsylvania Avenue, N.W.
Mail Code 1101A
Washington, DC 20460

Mary Walker,
Regional
Administrator, Region
IV,
61 Forsyth Street, S.W.
Mail Code 9T25
Atlanta, GA
30303-9860

Michael S. Regan,
Secretary
North Carolina
Department of
Environmental Quality
217 West Jones Street
Raleigh, NC 27603

Linda Culpepper,
Water Resources Director,
North Carolina Department of
Environmental Quality
217 West Jones Street
Raleigh, NC 27603

Zahid Khan
North Carolina
Department of
Environmental Quality
Mooreville Regional
Office
610 East Center
Avenue, Suite 301
Mooreville, N.C.
28115

Josh Stein, Esq.
Attorney General,
North Carolina
Department of Justice
Attorney General's
Office
9001 Mail Service
Center
Raleigh, N.C.
27699-9001

cc: (by first class mail)

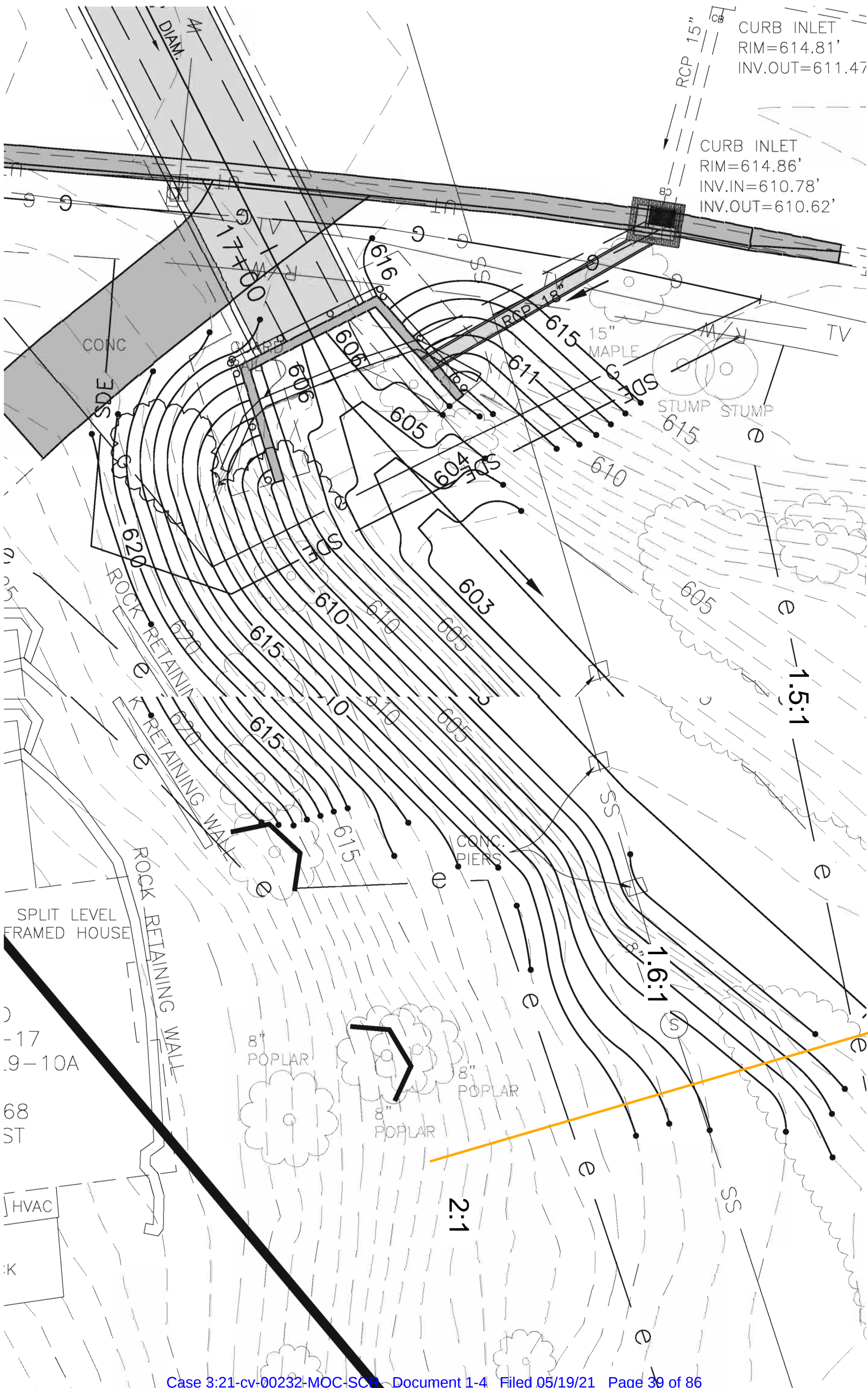
Alan Johnson
Senior environmental Specialist
NC Dept. of Environment & Natural
Resources (NCDENR)
Division of Water Resources - Water
Quality Regional Operations
610 East Center Ave., Suite 301,
Mooreville, North Carolina 28115

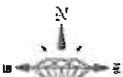
Bryan K. Roden
Reynolds
Regulatory Project
Manager
U.S. Army Corps of
Engineers
Wilmington District
Charlotte Regulatory
Field Office
8430 University
Executive Park Drive
Charlotte, North
Carolina 28262

*North Carolina
Sedimentation Control
Commission*
Dr. Susan N. White,
Chairperson and
WRI Director
850 Main Campus
Drive, Suite 105 Campus
Box 8605 Raleigh, NC
27695-8605

Patrick Baker, Esq.
City Attorney
600 East 4th Street
Charlotte, North Carolina 28202

Attachment 1B





Diamond Engineering, PLLC

Engineering, P

December 6, 2018

Hlonka Aylward
2813 Hinsdale St.
Charlotte, NC 28210

Subject: Evaluation of Potential Impact to 2813 Hinsdale St. by a Proposed Charlotte Mecklenburg Storm Water Drainage Improvements Project

Dear Dr. Aylward,

This correspondence is to document the findings of a field inspection and evaluation of the impact of a proposed stormwater improvements project at your residential property at the above referenced address. After a review of the plans and an evaluation of the site conditions, I offer the following opinion. The plan, as it is currently proposed, poses substantial risk to the structural integrity of your residence, both during construction and in later years. Sewer manhole #2 on sheet U1, which is the closest to your residence, will be approximately 12' deep and will be constructed on a 24' high slope that exceeding 2:1 in slope. A 2:1 slope (a slope that drops 1' within 2' of travel) is the maximum slope that is typically considered stable. The steepness of this slope makes any construction in this area difficult, expensive, and subject to erosion and slope failure. This proposed manhole is within 24' of the corner of your foundation which is 12' above the proposed manhole location. Considering all these factors, the probability of soil settlement either during or after construction is significant.

Along with improving stream hydraulics, Charlotte-Mecklenburg Storm Water Services is attempting to better safeguard their sewer collection system by lowering the lines at the creek crossings below the creek bottom. This will require rock removal using either blasting or another nonconventional construction method which will also increases the probability of damaging your residence.

I offer the following recommendation which will eliminate the possibility of damaging your residence and in my opinion reduce construction cost associated of the sewer line construction. The sewer line currently zig-zags back and forth and crosses the creek in two locations (sheet U-1 and sheet U-6). Charlotte-Mecklenburg Storm Water Services should relay the sewer line on the northeast side of the creek from sheet U-6 up to and into the proposed manhole 4 on sheet U-1. The topography along the northeast side of the creek is flatter and lower and will allow for easier construction and reduced construction cost. This will eliminate both unnecessary creek crossings, secure the lines from potential washout or damage from floating debris, reduce construction cost, and eliminate the potential damage to your residence.

If you should have any questions, please contact me at (704) 922-0024.



Civil Engineering & Surveying
Site & Subdivision Planning
Erosion & Storm Water Control
Water & Sewer Design

Subject: Evaluation of Potential Impact to 2813 Hinsdale St. by a Proposed Charlotte Mecklenburg Storm Water Drainage Improvements Project

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Diamond Engineering, PLLC

Engineering, PLLC

June 17, 2019

Ilonka Aylward
2813 Hinsdale St.
Charlotte, NC 28210

Subject: Evaluation of Potential Impact to 2813 Hinsdale St. by a Proposed Charlotte Mecklenburg Storm Water Drainage Improvements Project

Dear Dr. Aylward,

This correspondence is to document the findings of a review of the proposed plans to replace the storm drainage culvert on Hinsdale Street, adjacent to your property. I have reviewed, in particular, the slope at the southwest corner of the culvert. The slope closest to your residence, is proposed to be 1.5-1. The Slopes at all the other corners of the culvert is proposed to be 2:1. A typical and maintainable maximum slope for soils in the piedmont of North Carolina is 2:1. Slopes steeper than 2:1 are subject to slope failure and erosion due to the inability to obtaining and maintain an adequate vegetative cover. This proposed unstable slope is uncomfortable close to your residence and it is my recommendation that a redesign in this area is warranted. Grading in this area will destroy the existing stable vegetation and structures and will subject the house foundation to blasting and vibration from moving construction equipment.

My recommendation is that the end of the wing wall be rotated toward the creek and away from your residence. This would reduce the cut, reduce the slope, and eliminate the risk to your residence. Because the creek is bending to the left in this location, angling the wingwall away from your residence will also protect the creek bank in this area. This proposed change shouldn't cost any additional money to construct and can be constructed below the 616 contour which will limit the danger to your house and reduce the city's easement cost.

You also indicated that the city contractor is planning on storing materials and equipment on your property during construction. The only possible location for this would be across the creek from your house on the triangular lot of your property bounded by the creek, the road, and your eastern property line. Using this area wouldn't cause a significant disruption to your residence or disturb an area that might erode and cause structural damage to your house. Please review my comments and let me know if you have any additional questions.

If you should have any questions, please contact me at (704) 922-0024.

Johnny H. Denton, PE, PLS
Diamond Engineering, PLLC



Civil Engineering & Surveying
Site & Subdivision Planning
Erosion & Storm Water Control

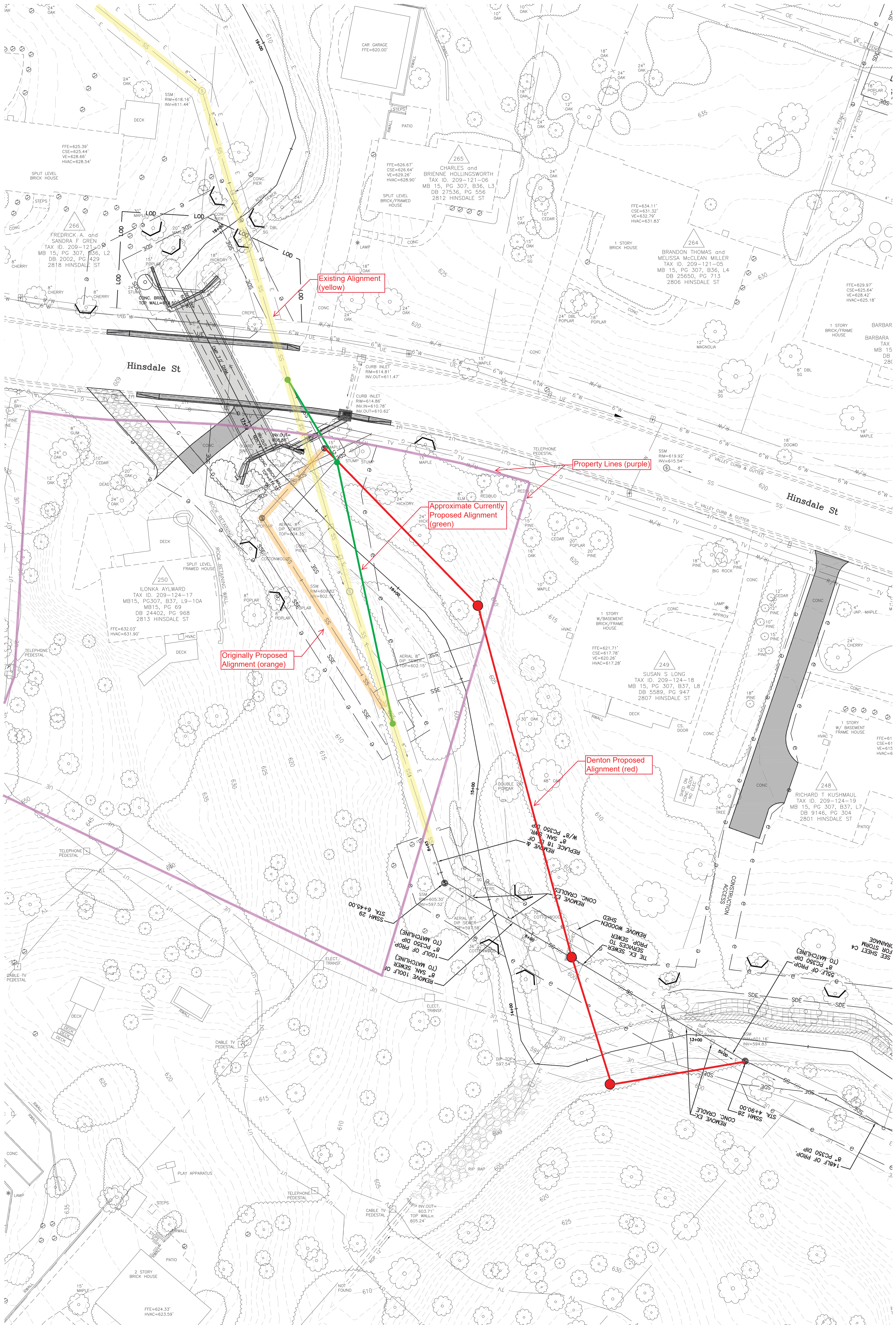
Subject: Evaluation of Potential Impact to 2813 Hinsdale St. by a Proposed Charlotte Mecklenburg Storm Water Drainage Improvements Project

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Exhibit Only - Not for Construction

scale: 1 inch = 20 feet



Dr. ILONKA AYLWARD, ESQ, acting *pro se*
1645 Scotland Avenue, Charlotte, North Carolina 28207
704.334.5902
draylward@carolina.rr.com

December 3, 2019

Notice of Intent to Commence Civil Action under Sections 301, 401, 402, 404 & 505
of the *Clean Water Act* and the *North Carolina Sediment Pollution Control Act of*
1973

BY CERTIFIED MAIL:

City of Charlotte
Marcus D. Jones,
City Manager
Office of the City Manager
600 East 4th Street,
Charlotte, N.C 28202

City of Charlotte
Vi Lyles,
City Mayor
600 East 4th Street,
Charlotte, N.C. 82202

Michael Davis,
City Engineer
600 East 4th Street,
Charlotte,
N.C. 28202

Charlotte Stormwater Services
Kruti Desai, PE,
Program Administrator,
Division Manager,
City of Charlotte
600 East Fourth Street,
Charlotte, N.C. 28202

Mecklenburg County
Stormwater Services
Dave Canaan,
Storm Water
Services Director
2145 Suttle Avenue
Charlotte, N.C. 28208

Dear Sirs and Madams:

Dr. Ilonka Aylward, Esq., the undersigned homeowner, acting *pro se*, hereby notifies you of her intent to commence a civil action against the City of Charlotte and the

Charlotte-Mecklenburg Stormwater Services Utility, (referred to collectively as “City&Storm”) under sections 301, 401, 402, 404 and 505 of the *Clean Water Act* (“CWA”) and *North Carolina Sediment Pollution Control Act of 1973, as amended*, sixty days from the date of this letter unless you take action described below.

In addition, I seek that City&Storm pay civil penalties of \$25,000 per day for each day of each violation, as provided by 33 U.S.C. §1319(d), as well as fines and penalties under the *Sediment Pollution Control Act of 1973*.

I ask that City&Storm desist from unpermitted (and/or in violation of the permit) discharges of dredged and fill materials in waters of the United States and from unpermitted (and/or in violation of the permit) discharges of stormwater and pollutants to surface waters, associated with the following current and threatened but imminently forthcoming activities on a tract of land known as 2813 Hinsdale Street, Charlotte, North Carolina 28210.

The threatened and violations on 2813 Hinsdale Street, Charlotte, North Carolina, are incident to the City&Storm project known as “Hinsdale-Tinkerbell Stormwater Drainage Improvement Project” with the drainage area of approximately 240 acres and current estimated cost of construction \$7,900,000.

EXECUTIVE SUMMARY



2813 Hinsdale St., Charlotte, North Carolina 28210.

My house, guarded by two retaining walls, sits on a steep slope.



The slope above the creek is very steep — up to 57 degrees effectively, — and nearly vertical in parts.

The slope is over 20 feet tall along the creek under the house.



Over decades, storm water has been shooting at my bank from an illegally designed outfall, causing erosion.



US Army Corps of Engineers:
**DO NOT ANGLE STORMWATER PIPE AT
90 DEGREES TO THE RIGHT BANK!
(EROSION)**

On the left culvert wing wall, downstream part of Hinsdale Street culvert, there is a stormwater outfall designed faultily, and in violation of Clean Water Act: storm water hoses at right bank (where my house sits) at 90 degrees, and shoots water with such force that it undercuts the bank below.

U.S. Army Corps of Engineers warned Stormwater that existing outfall design, where stormwater shoots at 90 degrees across the creek, is faulty. Less than two hours after receiving directions from the U.S. Corps of Engineers, Charlotte-Mecklenburg Stormwater Services ("the CMSWS") secretly agreed between themselves to ignore the U.S. Corps's instruction.



The suffering slope has severe erosion, — “severe” being the official erosion grade determined by Channel Stabilization Assessment Report by *Wildlands Engineering* (hired by SMSWS).

The red and yellow on my land mean “severe” and “mild” erosion, respectively.

Since 2014, City of Charlotte and CMSWS has been working on “Hinsdale-Tinkerbell Storm Drainage Improvement Project.” The project covers 240 acres, and has a \$7,900,000 budget.



One of the project's stated goals is to “address stream erosion.”

On Hinsdale Street, the illegal stormwater outfall and the entire culvert — 84-inch round pipe with flared wingwalls cutting high & deep up the slope (shown

here) will be ripped out and replaced with a 12x7 “bottomless” culvert.



Stormwater flow will be increased by redirecting large additional flow from wider areas. CMSWS plans to **replicate** the 90 degree direction shooting at opposing bank in their new outfall. The only difference will be the increased flow.

Also, as shown with red arrows here, CMSWS plans to grade the steep slope above and downstream of the culvert, and far downstream, beyond construction area proper, in order to...

store heavy, vibrating machinery on steep slope over 20 feet tall.

CMSWS land-clearing plan includes:

removing trees, shrubs, vegetation cover with mechanized excavation activities,

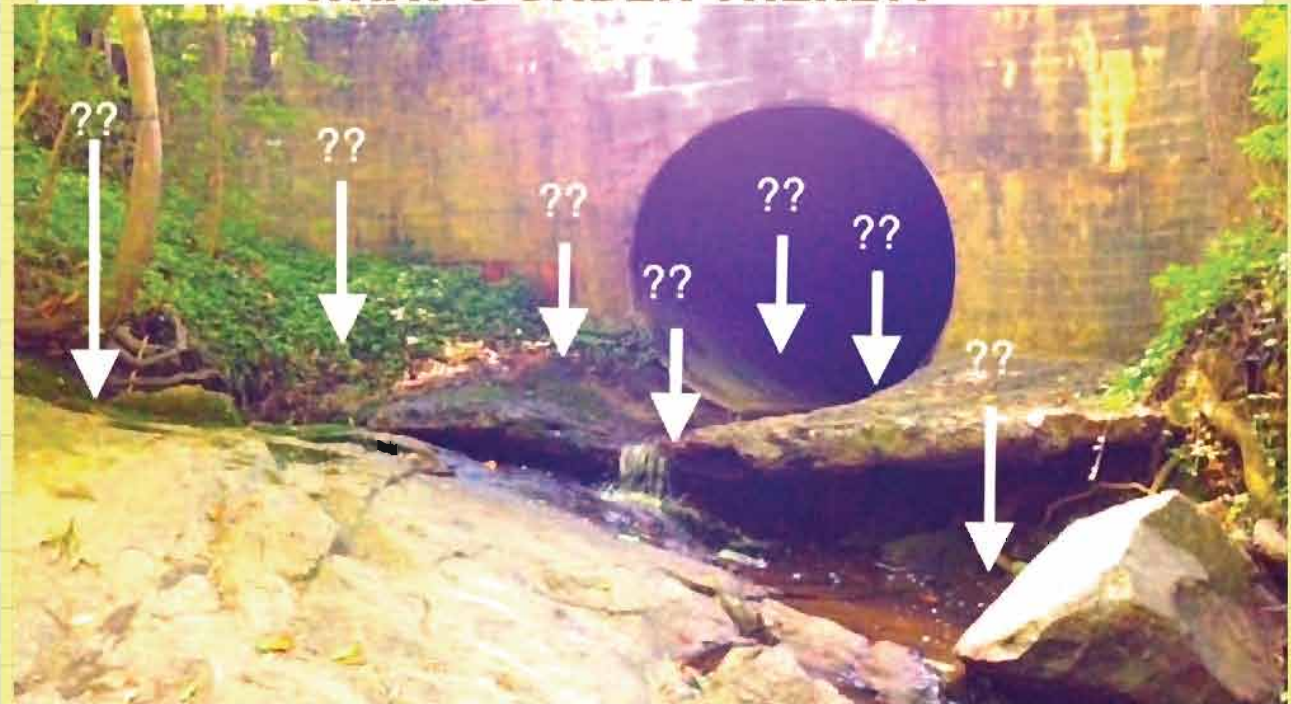
extensive grading at prohibited angles 1.5:1), heights (over 10 ft) and without a buffer,

permanent change of bank contours,

destabilizing stream bank with heavy vibrating mechanized equipment and machinery,

— all in violation of the *Clean Water Act and Sediment Pollution Control Act of 1973*

**STORMWATER SERVICES
DID NOT TEST SOIL UNDER THIS CULVERT
WHAT'S UNDER THERE??**



In contravention to Armstrong Glen Engineering and U.S. Army Corps of Engineers, CMSWS plans to construct Hinsdale culvert blind: without any prior soil analysis or Plan B in case there is no bedrock under the existing culvert pipe.

Additionally, U.S. Army Corps of Engineers warned CMSWS against blasting bedrock in the stream — but this warning also fell on deaf ears (more about this later in the Letter.)

I sought review of CMSWS's project by an independent municipal engineering firm, Diamond Engineering — and received a predictable report: slope failure and damage to the foundation of the house will likely result.

GRADING AND STORING MATERIAL AND EQUIPMENT IN THIS AREA WILL DESTROY THE EXISTING STABLE VEGETATION AND STRUCTURES...



Ensuing erosion is in violation of *Clean Water Act* and *Sediment Pollution Control Act of 1973*.

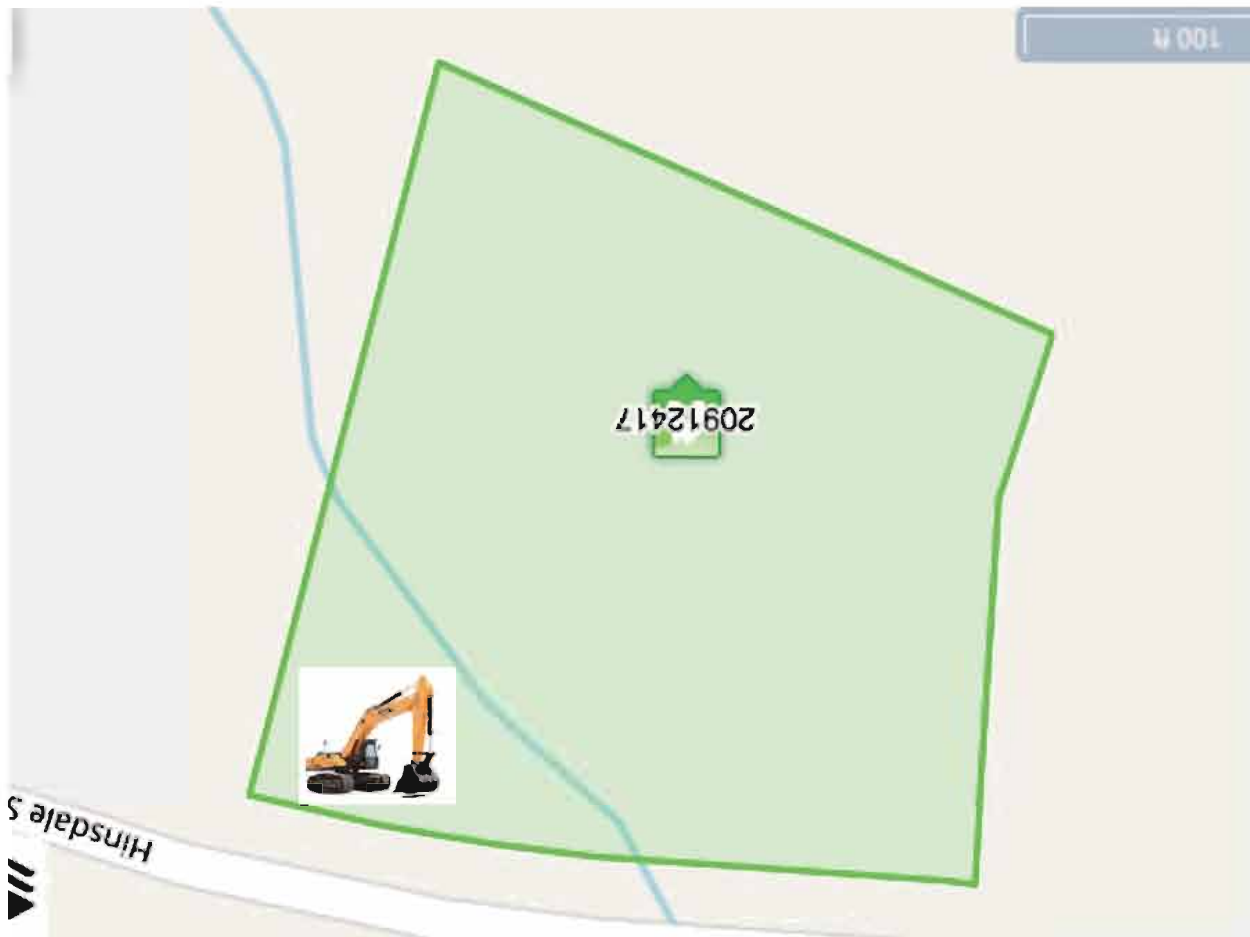
Importantly, there is no need to grade steep slope and cause erosion:

An easier access to construction site from left stream bank is on my land, and I am happy to grant access.

Diamond Engineering said so in its report.



I forwarded to CMSWS alternative designs which is safe, in compliance with Clean Water Act, and cheaper (See Diamond Engineering reports **Attachments 2A and B**)



Construction equipment icon marks part of the land where it is safer to keep equipment and materials and enter the construction zone.

CMSWS has not received (and, as far as I know, not applied for) the necessary permits from U.S. Corps of Engineers, NCDEQ-DEMLR, and Clean Water Certification.

CMSWS did, however, schedule City Council meeting to request that City of Charlotte use its eminent domain powers to take my

landowner's right to control and reign in CMSWS threatened unpermitted land-disturbing activity.

Under Section 505 of the Clean Water Act, and under *North Carolin Sedimentation Pollution Control Act of 1973* §113A-66, I have standing as a private citizen who suffered “injury in fact” — an invasion of legally-protected interest.¹

This suit is timely because injury does not have to be a fait accompli. A threatened injury is sufficient to confer standing. *Friends of the Earth, Inc. v. Gaston Copper Recycling Corp.*, 204 F. 3d 149, 160 (4th Cir. 2000).

The following applies not just to me but has important implications for all citizens of Charlotte

Although CWA and *North Carolina Sediment Pollution Control Act of 1973* empowers citizen landowners of North Carolina to control erosion of their own land...

Although under the law of our State, unless land-owner **knows** and **consents** in writing to an erosion and sedimentation control plan, nobody can disturb his land. N.C. Gen. Stat. 113A-54.1(a)
...

¹ *Driscoll v. Adams*, 181 F3d 1285 (11th Cir. 1999) (standing under Clean Water Act where stormwater polluted with mud, sand and silt discharged into a stream running to the ponds of plaintiff's property); *Sierra Club v. SCM Corp.*, 580 F. Supp. 862 (1984); *Ecological Rights Foundation v. Pacific Lumber Co.*, 230 F.3d 1141, 1152 (9th Cir. 2000). (holding that plaintiff does not have to prove environmental degradation to obtain standing. Damage to individual's aesthetic or recreational interests is sufficient for standing.)

City&CMSWS's practice is to **take easements on private land first, then decide what to do on the land.**

Maybe City&CMSWS will obtains the permits. Maybe it will proceed in violation. City&CMSWS practice is that land-owner is not allowed participate in his own land-disturbing plan, or even to be timely informed. Without FOIA, I would not know of U.S. Army Corps of Engineer's objections.

In my case, City&CMSWS's design is clearly in violation of all permit conditions, CWA and State Act.

Earlier this year, CMSWS falsely represented to me that permits were already received. They were not then and, to my knowledge, are not now.

This practice of “take easements first, get permits maybe later” should be changed. City&CMSWS should obtain all permits before eminent domain power takes private land.

To sum up, my requests are:

In the forthcoming Hinsdale-Tinkerbell Project on 2813 Hinsdale Street, Charlotte, North Carolina, 28210,

- **all CWA permits must be received before my land is taken, and I retain all owner's rights under 113A-54.1(a) and Clean Water Act, including being copied on all correspondence that concerns my land**

- **storm water outfall on left bank be redesigned, so that the run-off velocity and angle of the falling water no longer erodes the right bank**
- **right bank erosion that already happened be remediated**
- **culvert wings be redesigned to follow the bank, not cut into steep slope of the bank. culvert wing not be pushed back to the street, and not shortened**
- **on right slope, no grading above culvert and no grading downstream of the culvert**
- **no machinery or equipment stored (or traveling) on the right, steep bank of the creek**
- **no dynamite blasting**

For over a year, I tried to reason with CNSWS and City representatives, and ask them to refrain from threatened violations.

The only answer I received was “You’ll never prove it!”

I am, therefore, forced to bring a lawsuit under Clean Water Act and *North Carolina Sediment Pollution Control Act of 1973, as amended*.

ATTACHMENTS, DEFINITIONS & EXPLANATIONS:

Attachments 1A and B are maps of threatened construction on 2813 Hinsdale Street, Charlotte, North Carolin. Both maps were drawn by CMSWS.

Attachment 1A is the (penultimate)¹ project design provided to me by the Hinsdale-Tinkerbell Project Manager Mr. John Keene, with CMSWS.

Attachment 1B is the project design provided by Daryl Hammock after I complained to the Charlotte City Engineer. CMSWS arbitrarily and capriciously increased grading at lease 7 times. Plainly, the threatened grading area is increased at least 7 times.

Attachements 2A and 2B are reports prepared by *Johnny Denton, P.E., PLS*, owner of *Diamond Engineering, PLLC*.

Attachment 3. Sewer alignments — red straight line proposed by Diamond Engineering; sig-zags are by CMSWS.

Qualifications and Affiliations of the Engineering Firms Mentioned in the Letter

Diamond Engineering PLLC is a consultant I employed to help me understand the CMSWS Project on my land.

Diamond Engineering PLLC serves as the Town Engineer for the Town of Dallas and consults with other municipalities and government agencies.

Mr. Johnny Denton, P.E. and *Diamond Engineering PLLC* specialize in municipal and civil engineering design, municipal engineering consulting, site design and

¹ First design included a 12 foot deep sewer manhole cut into steep slope under my house at 24 feet high. SMSWS eventually agreed that this sewer position was unsafe for construction because it exceeded the minimum steepness requirement of the feet horizontal travel per foot vertical rise.) First design had the sewage line cross from left (flatter and lower, opposite to my house) bank, cut through bedrock (which required dynamite blasting) to get to the the manhole on the right bank cliff right under my house foundation, only to then hop back to the left bank of the creek. After consultation with Diamond Engineering, City&Storm presented a second design. The sewage does not cut right under my house. It does hop left-right-left across the creek, but the “hops” are lower downstream, where the terrain is less steep. See **Attachment 3** for sewer odyssey representation.

subdivision planning, water and sewer design, storm water design and management, flood studies, erosion control, earthen dam design and breaching, roadway design and also improvements such as sidewalk and curb and gutter, park design and planning, and construction inspection and hydrology flood studies. Serving as a Town Engineer himself, Mr. Denton is more than qualified to offer his opinion on basic mistakes and violations of the plans complained of here and to offer competent redesign options.

Reports of Diamond Engineering provide, *inter alia*, an opinion that construction, as planned by City&Storm, will result in slope failure and erosion.

Diamond Engineering letters also provide direction for sustainable redesigns, which complies with engineering standoffs and practices, State and Federal laws, **and cost less.**

Armstrong Glen, P.C. is an engineering consulting team hired by City and/or CMSWS who did all the work on the Project

Wildlands Engineering is an engineering firm hired by Charlotte Mecklenburg County Stormwater Services to walk the area and describe erosion in the stream, i.e. Channel Stabilization Assessment Report.

“City” means City of Charlotte

“CMCSWS” means Charlotte Mecklenburg County Stormwater Services

“City&Storm” means City of Charlotte and Charlotte Mecklenburg County Stormwater Services

“Project” means *Hinsdale-Tinkerbelle Stormwater Drainage Improvement Project* with the drainage area of approximately 240 acres and current estimated cost of construction \$7,900,000 and stated goal of, *inter alia*, addressing stream erosion.

All discussion, arguments, attachments contained in one subsection of this Notice are incorporated by reference as though restated in all sections of this Notice.

UNPERMITTED DISCHARGE OF DREDGED AND FILL MATERIAL IN WATERS

Discharges of dredged and fill material that are not in compliance with Clean Water Act are prohibited. A discharge of dredged or fill materials into navigable water requires a permit from United States Army Corps of Engineers. FWPCA 404(a), (d), 33 U.S.C. 1311(a).

Compliance with the conditions of the permit are also required. FWPCA 404(p), 33 U.S.C. 1344(p).

The discharge of dredge includes additions to the water “incidental to mechanized land clearing ... or other excavation.” 33 C.F.R 323.2(d)(1)(iii); see 33 C.F.R. 323.2(d)(2)(1) (including “earth-moving activity.”)

“Any discharge of dredged and fill material into the navigable waters incidental to any activity having as its purpose bringing an area of the navigable waters into a use to which it was not perviously subject, shall be required to have a permit under this section.” 33 U.S.C. §1344(f)(2).

“Navigable,” as used in the Act, is of limited import, and ditches, canals, as well as streams and creeks, have been interpreted by the courts as “navigable waters of the United States.” In any event, there is no dispute that the unnamed creek at issue is jurisdictional.

City&Storm has not applied for or obtained a permit, and its construction designs violates Section 404 of Clean Water Act in several respects, at least three of which U.S. Army Corps of Engineers already pointed out to CMSWS in preliminary review. City&Storm ignores U.S. Army Corps of Engineer’s warning and persists in its illegal design.²

I. Land disturbing activity on steep slope violates CWA 404

² I understand that City&Storm might argue that it will proceed under Regional General Permit. However, the threatened design violates conditions of the permit, and the U.S. Army Corps of Engineers already warned CMSWS, as described in this letter. Also, based on intra-office correspondence, City&Storm recognizes that Nationwide Permit may be necessary based on the size of the project, and, based on the individual challenges involved in Hinsdale Culvert specifically, it may even need an individual permit.

Right bank of the unnamed creek as it runs through the subject plot 2813 Hinsdale Street, is tall, steep, and very eroded. City&Storm's threatens unpermitted land disturbance of this steep slope — complete land clearing (removing trees, shrubs, vegetation cover) by mechanized excavation activities, extensive grading, permanent change of bank contours, destabilizing stream bank with heavy mechanized equipment and machinery, on the strip over 20 feet high along the creek bank within a few feet from the house foundation, — plus, dynamite blasting in the stream.

I request that City&Storm refrain from disturbing the steep slope located above and beyond the Hinsdale culvert, because this grading is not only unpermitted and, therefor, illegal, but also arbitrary and capricious: the grading is totally unrelated to the purported reconstruction of Hinsdale culvert.

City&Storm's project plans a change to bank contours and discharge of dredged and fill material into the navigable waters. That is in violation of Section 404 of Clean Water Act.

The steep slope in question reaches over 20 feet (depending on the part of the slope.) Effective slope rate is 1.5:1, but some parts are vertical.

Diamond Engineering PLLC concluded that “the steepness of this slope makes any construction in this area... subject to erosion and slope failure... the probability of soil settlement either during or after construction is significant.” **Attachment 2A**

Diamond Engineering explained that basic engineering principles (which are, incidentally, incorporated into all permit requirements) do not allow grading this slope.

Diamond Engineering wrote that while the subject the slope is 1.5:1, “[a] maintainable maximum slope for soils in the piedmont of North Carolina is 2:1. Slopes steeper than 2:1 are subject to slope failure and erosion due to inability to obtaining and maintain an adequate ground cover.”

Diamond Engineering concluded that subject slope is “unstable;” that “grading in this area will destroy the existing stable vegetation and structure;” and that storing heavy machinery on the slope, as per City&Storm's plan, is not an option.

But City&Storm is welcome to store on the left bank of the creek, which is also my land.

Bank erosion, slope failure, inability to obtain vegetative cover will result from City&Storm's threatened unpermitted land disturbing activity and will necessarily result in discharges of dredged and fill material, — all in violation of sections 301 and 404 of the Clean Water Act without permit or in violation of permit.

Threatened land-disturbing activity is arbitrary, capricious, **and retaliatory**, because CMSWS purposefully increased land-grading area which will destroy the counters of the slope and vegetative cover at least seven times after I went over the head of Stormwater Project Manager and complained to the Charlotte City Engineer. Additional grading is right under the house foundation and along the creek.

The insert here shows a close-up of grading threatened by CMSWS in early 2019, as compared to after I complaint to City Engineer in late 2019. The area to be graded is increased at least 7 times.

Note that *Department of the Army Regional General Permit* specifically commands: "Tree and shrub cover along the stream should be retained as much as possible in order to stabilize the stream banks."³

Also, U.S. Army Corps of Engineers warns that the their permit "does not authorize injury to the property or rights of others."⁴ The proposed plan, and especially the retaliatory additional grading clearly show intent to cause injury to house foundation.

II. Unnecessary dynamite blasting of bedrock in the stream violates CWA 404. US Army Corps of Engineers, acting in preliminary review of the project, warned against unjustified blasting. I provided a safer, cheaper design that does not call for dynamite blasting.

³ *Department of the Army Regional General Permit* para (p) at 5.

⁴ *Department of the Army Regional General Permit* para (j) at 7.

Grading *before* I complained

**> 10 feet
&
steeper than
2:1**



Grading after I complained

>10 ft &
steeper than 2:1 &
7 times larger
area



In 2019, the U.S. Army Corps of Engineers became aware of the threatened dynamite blasting of bedrock in the creek, and emailed to warn City&Storm that unjustified blasting would not receive the 404 permit.

U.S. Army Corps of Engineers further warned City&Storm that “blasting has potential issues, including fracking and loss of stream flow.” It then requested assurances that City&Storm **would receive proper permits.**

City&Storm did not respond, and has not changed the design.

The threatened dynamite blasting in the creek and on the bank downstream from Hinsdale culvert is unjustified for this reasons:

Blasting is part of City&Storm’s plan to cut through the bedrock in the creek, so they can bury a sewage pipe (it is now aerial).

The sewage pipe in question unnecessarily zigzags from left bank to the right bank, and back to the left bank.

As it happens, there is no justification for the sewage pipe zig-zagging at all, and therefore, no need for bedrock blasting.

Sewage pipe can easily run straight down the left bank. This simple and cost-efficient design has been prepared at my expense and presented to CMSWS by Johnny Denton, PE, of Diamond Engineering, an engineering firm that serves as Town Engineer for the Town of Dallas itself. Mr. Denton has extensive experience and engineering expertise in municipal, hydrological, water and sewer design, storm water design and management, flood studies, erosion control. **See Attachment 2A and 3.**

City&Storm rejected the cheaper, safer, professional design that satisfies Clean Water Act, and continues with its designs that violate the Act by unnecessary blasting.

I request that it desists and lay the pipe straight, or at least lay it straight far enough downstream where bedrock ends and no blasting is required. Mostly, this can be done on my land.

III. Existing Stormwater pipe outfall is directed at 90 degrees at the opposite bank. This has caused “severe” erosion and bank undercutting. City&Storm has been already warned by US Army Corps of Engineers that this is a design defect. City&Storm threatens to replicate the same defect in the new culvert it plans to build.

Presently, downstream of Hinsdale culvert, a stormwater pipe drain discharges at nearly 90 degrees to the opposite (right) bank, the bank where my house sits. This has caused and continues to cause erosion, sedimentation, and bank undercutting.

In 2019, I made U.S. Army Corps of Engineers aware of this design defect.

The Corps agreed it was a problem, and contacted CMSWS, to warn that redesign was warranted. Outfall, — warned the Corps, must “not come in a 90 degree angle to reduce potential erosion on the opposite bank.”

Nor can stormwater fall “perpendicular to the stream.” US Army Corps of Engineers advised CMSWS to “consider potential impact of directing storm flow across the stream.”

In response, CMSWS falsely represented to the U.S. Army Corps of Engineers that their planned new construction would correct this violation.

However, CMSWS’s intra-office emails (which I received by FOIA request) revealed the falsehood: the very same morning (May 23, 2019) when CMSWS promised to the U.S. Army to redesign so that the outfall does not cut the opposite bank, they promptly agreed between themselves to ignore the U.S. Corps’s recommendation. Among the reasons was unwillingness to redesign again.”

U.S. Army Corps, on its part, was not looped in at least as late as June 13, 2019: “I asked if they would be able to change the angle of the storm water pipe so that it is not at a 90 degree angle to the stream which should help directly storm flow downstream and away from the opposite bank. ...once the plans come if with the permit request we can review those to see if this revision has been made, and if not follow up with the City at that time.”

Currently, the existing stormwater outfall continues undercutting the steep slope, in continuing violation of the Acts, and the design for the new outfall remains uncorrected, in threatened violation of the Acts.

In sum, City&Storm conspired to replicate the existing violation and to ignore and mislead the Agency.

The continued erosion and bank undercutting has resulted and will continue to result in unpermitted discharge of dredged and fill materials, including sand, silt, dirt, debris, and sedimentation, all in violation of Section 404 of the Clean Water Act and of North Carolina law.

IV. Threatened “Blind” Culvert Construction is Unpermitted and Violates Conditions of the Permit

As already explained, City&Storm plans to rip out existing Hinsdale culvert, an 84 inches round pipe with wing walls, and put in a “bottomless” 12 by 7 feet culvert, hoping that the bottom of the creek is fully stabilized by bedrock.

Creek bed downstream of culvert is, indeed, bedrock, but is impossible to know what’s *under* the existing culvert and flume.

Clean Water Act does not allow bottomless culverts unless there’s bedrock. City&Storm’s own engineers, ArmstrongGlen, advised that at Hinsdale culvert, geotechnical investigation is required, boring at each end of culvert, to find out what soil is under there. ArmstrongGlen engineers further warned CMSWS that soil data was necessary to design wing wall and footings of headwall.

City&Storm ignored its own engineers.

Perhaps significantly, Hinsdale culvert was specifically singled out. All the necessary soil tests were performed at every other culvert of the Hinsdale-Tinkerbell multi-culvert Project, — but not at the Hinsdale culvert. SMSWS even pressed me to perform soil tests in my back yard — but has not done them at the culvert wingwalls. What is it afraid to find under the existing culvert, and why does it wasn't to build blind?

Building blind did not sit well with the U.S. Army Corps of Engineers, either.

In September of 2018, the U.S. Army Corps of Engineers conducted its pre-application field review. At the conclusion of review, the U.S. Corps of Engineers

became concerned: *what if there is no bedrock underneath?* (Note that, per 404 permits, culverts must ordinarily be buried to minimize destabilization.)

U.S. Army Corps of Engineers marked in her notes:
“...recommended stabilization measures if they pulled out culvert and fume and no bedrock. Would probably require modification in that case.”

U.S. Army Corps of Engineers then asked CMSWS to come up with “Plan B,” in case there is no bedrock underneath — a request which City&Storm ignored, in the same way it ignored its own engineers, and in the same way they ignored applying for permits.

In addition to the soil tests, the wide-winged shape of culvert is an issue on this steep slope.

CWA Section 404 Permits makes very specific requirements of the shape, position, stabilization measures of the culverts, — depending on the stream. Three-sided culverts are only allowed if they can not be buried. Culverts width must be “comparable to the width of the stream channel,” and not wider. In contrast, the existing wing wall is so wide that it cuts into the steep slope, causing land-disturbance in violation of Section 404 of the Clean Water Act. Culvert designed by City&Storm is significantly wider than the stream, in violation of conditions of the permit, and will cause destabilization and disturbance of stream bank.

A redesign of culvert wing wall to run along the stream, instead of cutting into the slope was prepared at my expense by Diamond Engineering. See **Attachment 2B**.

I request that culvert reconstruction complies with the provisions of Clean Water Act, that necessary soil samples be analyzed before construction starts, that plan and plan contingencies requested by the U.S. Army Corps of Engineers be properly submitted for permitting process and that City&Storm desists from “just winging it” with Hinsdale culvert, in violation of Clean Water Act 404. I also request that culvert is designed in such a manner so to stabilize the highly eroded slope of the creek along the stream. Faulty stormwater outlet eroded the bank, and I request remediation.

UNPERMITTED DISCHARGE OF STORMWATER AND POLLUTANTS AND DISCHARGE IN VIOLATION OF THE PERMIT

Sections 301 and 402 of the Clean Water Act prohibits discharge of pollutants, without a NPDES permit. 33 U.S.C. §1311, 1342(p)⁵. “Discharge of pollutants” means, inter alia, “any addition of pollutant to navigable waters from any point source.” 33 U.S.C. §1362(12).

Stormwater is a pollutant (or contains pollutants) within the meaning of the Act. “When rain water flows from a site where land disturbing activities have been conducted, such a grading and clearing, this water is a pollutant under the CWA” *North Carolina Shellfish Growers v. Holly Ridge Assocs., LLC*, 278 F. Supp 654, 678 (E.D.N.C. 2003) Sediment, which is primarily composed of sand and dirt, is a pollutant with the meaning of Clean Water Act. See *Driscoll v. Adams*, 181 F.3d 1285, 1291 (11th Cir. 1999) (sand, silt, mud in stormwater are pollutants.)

As a corollary, an NPDES permit is required for stormwater discharges associated with construction activities, including clearing, grading, and excavation of one acre and more, including project less than one acre which is a part of a larger common plan.⁶

On the subject tract, which is part of a 240 acre common plan and development, City&Storm threatens discharge of storm water without NPDES permits, in violation of Clean Water Act and discharges storm water in violation of Clean Water Act.

City&Storm is threatening to violate the Act by grading without NPDES Permit, in violation of Discharge Permit conditions and in violation of North Carolina Sediment Pollution Control Act of 1973, as amended

⁵ The National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Program is mandated under the federal Clean Water Act. In North Carolina, the EPA has delegated MS4 Program oversight to the Department of Environmental Quality (DEQ), Division of Energy, Mineral, and Land Resources.

⁶ See also 40 C.F.R. 122.26(b)(14)(x) and (15)(i) including small projects that are part of the common plan.

For City Municipal Projects, enforcement and permitting of the Clean Water Act (including the implementation of Construction Site Stormwater Runoff Control Project), lies directly with the State.

Thus, City&Storm is prohibited from construction without obtaining 402 permit from North Carolina Department of Environmental Quality, Division of Energy, Mineral and Land Resources (NCDEQ-DEMLR).⁷

City&Storm has not applied to NCDEQ-DEMLR for a Permit to Conduct Land Disturbing Activities, a.k.a. grading plan.

Not only City&Storm is threatening to grade without a permit, but its threatened grading project (**Attachments 1A or 1B**) is in violation of the Clean Water Act and contrary to the Best Management Practices (BMPs) mandated by a Discharge Permit⁸ for land-disturbing activity, as well as in violation of North Carolina Sediment and Pollution Control Act of 1973.

While all large area grading is strictly regulated by Section 402 of the Clean Water Act, steep slope disturbances especially must be “minimized.” 40 CFR 450.21(a)(4)

Grading on the subject slope violates Clean Water Act and *North Carolina Sediment Pollution Control Act of 1973* because, among other things, it exceeds the allowable parameters — both in steepness angle and the height.

⁷ See *Discharge Permit Section E(2.)(d) at Part II, page 5; City of Charlotte NPDES MS4 Permit Renewal Application and Stormwater Management Program Report. Permit NCS000240 August 2017. Section 6 at 20, Section 7.4.5 at 39.*

⁸ Under the authority of the Federal Clean Water Act, State of North Carolina Department of Environmental Quality Division of Energy, Mineral, and Land Resources, issued to the City of Charlotte Discharge Permit NCS000240, (“Discharge Permit.”)

Current Discharge Permit is issued October 10, 2018, expires October 9, 2023.

Discharge Permit NCS000240, contains applicable requirements and hurdles for “land-disturbing activities,” i.e. grading, which are in the Permit itself and in the laws incorporated by reference: *Clean Water Act, the Sediment Pollution Control Act of 1973, Chapter 4 of Title 15 of the North Carolina Administrative Code and Clean Water Act, and all the Federal Law including but not limited to Clean Water Act.* Noncompliance with the conditions of the Discharge Permit constitutes a violation of Clean Water Act. (Discharge Permit at 27)

Maximum steepness for “[a]ll graded creek banks and slopes shall be at a maximum of two (2) feet horizontal to one (1) foot vertical (2:1) and not to exceed 10 feet without terracing...”⁹ In contrast, subject slope is steeper (1.5 to 1 instead of 2:1) and taller (over 20 feet instead of prescribed maximum of 10) — this is undisputed.

Johnny Denton, P.E. of Diamond Engineering reviewed threatened grading and concluded that “grading in this area will destroy the existing stable vegetation and structure,” the slope is “subject to slope failure and erosion due to the inability to obtaining and maintaining an adequate vegetative cover.” (**Attachments 2A and B**)

Consequently, the threatened grading violates Discharge Permit’s mandate that “[t]he angle for graded slopes ... shall be no greater than the angle that can be retained by vegetative cover or other adequate erosion-control devices or structures.” N.C. Gen. Stat. § 113A-57(2)¹⁰ (note that land disturbing activity are mandatory); *Code of Ordinances, City of Charlotte*, Section 17-33

Nor does City&Storm’s current grading design provide **any buffer** along the creek, as mandated by N.C. Gen. State § 113A-57(1).

Without control measures, the threatened grading will cause erosion and, as a result, ongoing discharge of pollutants, including sediment, sand, rock, dirt, eroded soil, debris, pollutant laden storm water and other substances into the waters of United States. I, therefore, request that City&Storm desist from this unsafe and illegal grading.

In accordance with the requirements of the establishing Section 402(p)(3)(B)(iii), Discharge Permit requires “controls to reduce the discharge of pollutants to the maximum extent practicable, including management practices, control techniques and system, design and engineering methods...” As shown above, City&Storm’s not only has no permit but also has a plan that the requirements of the permit.

⁹ *Charlotte Land Development Standards Manual, Charlotte Engineering and Property Management, Revision 18, January 31st. 2019 II(A)(10)* instructs:

¹⁰ Discharge Permit requirements incorporate by reference North Carolina *Sediment Pollution Control Act of 1973* and *City of Charlotte Soil Erosion and Sedimentation Control Ordinance*. Thus, non-compliance with the Sediment Pollution Act and the City Ordinance results in violation of the permit and, consequently, violation of Section 402 of Clean Water Act.

Existing and threatened Stormwater stormwater outfall is directed at 90 degrees at the opposite bank and has already caused erosion and bank undercutting in violation of State law and the Clean Water Act. U.S.

Army Corps of Engineers warned City&Storm against this design

Storm water outlet is a “point of discharge” and it is illegal to operate it without a NPDES permit. Clean Water Act 301, 402. “Every point source discharge is prohibited unless covered by a permit, which directly subjects the discharger to the administrative apparatus established by the Congress to achieve its goals.”

Storm water outlet design is faulty: it erodes the opposite bank and deposits solids in surface waters. U.S. Army Corps of Engineers already warned City&Storm against replicating this faulty design as violating CWA 404. It also is in violation of CWA, and I request that this design be remediated and not replicated in the new construction.

III. Violation of water quality standards

Section 401 of the CWA requires a certification by the State in which a discharge originates that the construction or operation of facilities, which may result in any discharge into the navigable waters, comply with state water standards. 33 U.S.C. §1341(a). Under North Carolina law, a permit is required to “cause or permit any waste, directly or indirectly, to be discharged to or in any manner intermixed with waters of the State in violation of the water quality standards applicable to the assigned classification...” N.C. Gen. Stat. §143-215.1(a)(6)

I understand that City&Storm has neither applied for, nor received any Certifications and threatens to proceed to construction without permit or in violation of the permit. At a minimum, 4147 Certification is required, if operating under Regional General Permit No. 2016-00163 (RGP 163), “CSWS Stormwater Projects.

Excavation, land clearing, disturbing vegetation, eroding steep slope, relocation and redeposit of dredged and fill material, grading without a buffer, position of the outfall that continuously erodes the bank and send sedimentation into the stream is in violation of Clean Water Act, and water quality standards.

The last condition mentioned — directing storm water source at ninety degree angle to the opposite creek bank and eroding soil and sand has resulted and will continue to result in sediment in the water. This condition remains unremediated.

Unstabilized, oversized culvert and unjustified blasting, threatened by City&Storm's current plan, likewise, is not only without certification but in violation of certification standards.

With respect to the subject plot,

I request that City&Storm cease and desist from all activities that result in discharge of dredged and or fill material or pollutants into surface waters without permits, and in violation of the permits:

from illegal land-clearing and grading, blasting, destroying steep slope by heavy equipment, and from . Please consult Attachment 1 A and B.

from illegal culvert construction

from illegal stormwater discharge that erodes the bank and causes erosion

from land-disturbing activities without approved erosion and sedimentation control plan for in violation of such.

I further request that City&Storm correct ongoing violations of the Clean Water Act which have resulted from unpermitted discharge of stormwater and pollutants and the violation of water quality standards.

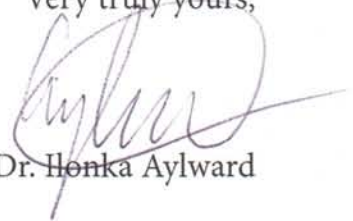
please consult page XV of Executive Summary, above and maps in Attachment 1A&B for the particulars.

The stated purpose of Hinsdale-Tinkerbell project is, inter alia, to **address stream erosion**. I request that Cit&Storm do just that — remedy the existing violation, ameliorate the slope failures, and redesign their construction plan so it comports its the Acts.

In accordance with the Clean Water Act, § 33 U.S.C. 1365(b)(1)(A), 40 C.F.R. § § 135.1-135.3 and *Sediment Pollution Control Act of 1973*, this letter serves to notify

you that I intend to file suit in federal district court to enjoin the threatened violations and correct ongoing violations described above, ensure compliance with federal and state law, obtain civil penalties, recover attorney fees and costs of litigation, and obtain other appropriate relief. If you would like to discuss the issues identified in this letter, correct any facts stated in this letter which you deem inaccurate, or offer a proposal for resolving these issues, please feel free to contact me.

Very truly yours,



Dr. Honka Aylward

Cc: (by certified mail, return receipt requested):

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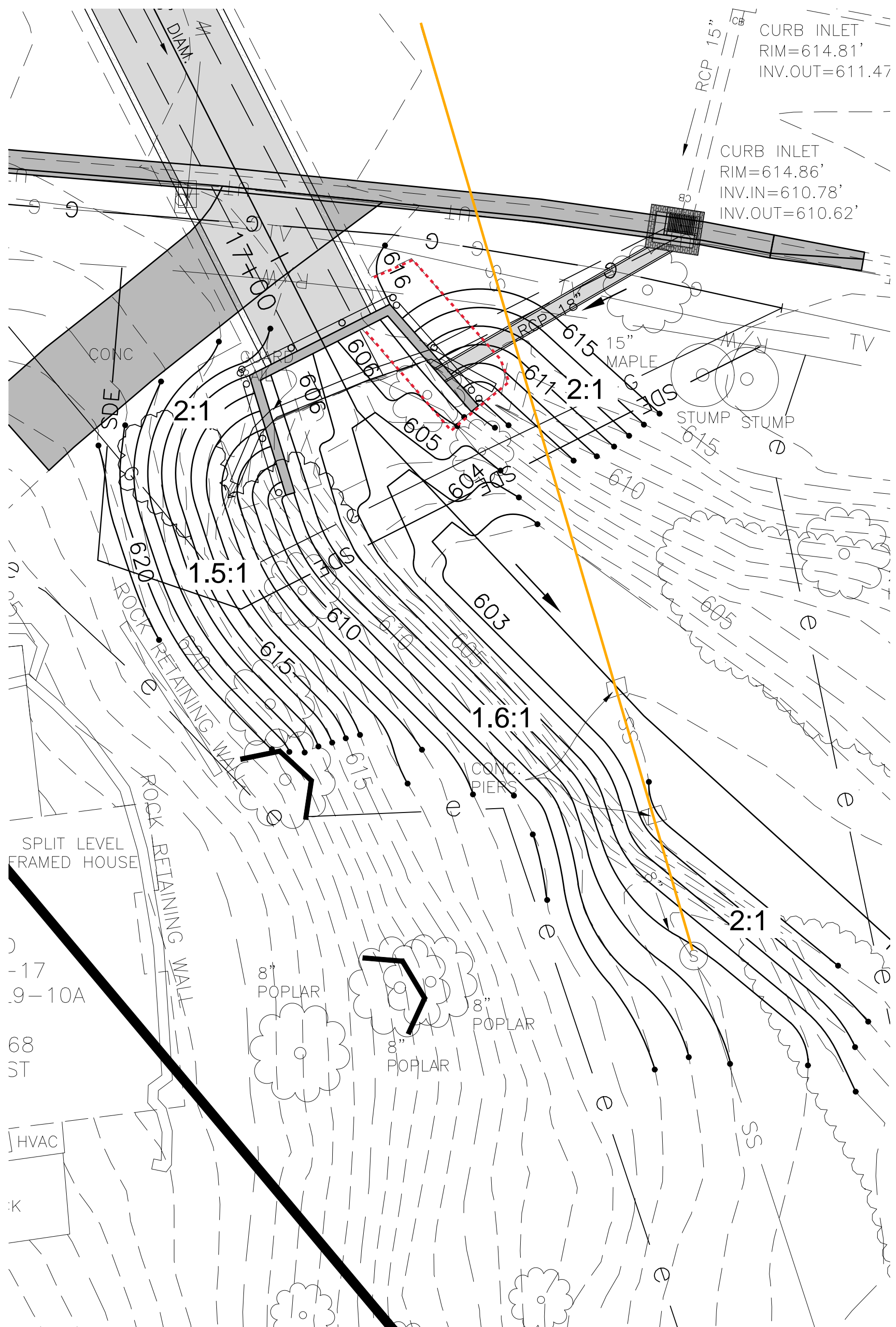
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December 6, 2018

Ilonka Aylward
2813 Hinsdale St.
Charlotte, NC 28210

Subject: Evaluation of Potential Impact to 2813 Hinsdale St. by a Proposed Charlotte Mecklenburg Storm Water Drainage Improvements Project


Dear Dr. Aylward,

This correspondence is to document the findings of a field inspection and evaluation of the impact of a proposed stormwater improvements project at your residential property at the above referenced address. After a review of the plans and an evaluation of the site conditions, I offer the following opinion. The plan, as it is currently proposed, poses substantial risk to the structural integrity of your residence, both during construction and in later years. Sewer manhole #2 on sheet U1, which is the closest to your residence, will be approximately 12' deep and will be constructed on a 24' high slope that exceeding 2:1 in slope. A 2:1 slope (a slope that drops 1' within 2' of travel) is the maximum slope that is typically considered stable. The steepness of this slope makes any construction in this area difficult, expensive, and subject to erosion and slope failure. This proposed manhole is within 24' of the corner of your foundation which is 12' above the proposed manhole location. Considering all these factors, the probability of soil settlement either during or after construction is significant.

Along with improving stream hydraulics, Charlotte-Mecklenburg Storm Water Services is attempting to better safeguard their sewer collection system by lowering the lines at the creek crossings below the creek bottom. This will require rock removal using either blasting or another nonconventional construction method which will also increases the probability of damaging your residence.

I offer the following recommendation which will eliminate the possibility of damaging your residence and in my opinion reduce construction cost associated of the sewer line construction. The sewer line currently zig-zags back and forth and crosses the creek in two locations (sheet U-1 and sheet U-6). Charlotte-Mecklenburg Storm Water Services should relay the sewer line on the northeast side of the creek from sheet U-6 up to and into the proposed manhole 4 on sheet U-1. The topography along the northeast side of the creek is flatter and lower and will allow for easier construction and reduced construction cost. This will eliminate both unnecessary creek crossings, secure the lines from potential washout or damage from floating debris, reduce construction cost, and eliminate the potential damage to your residence.

If you should have any questions, please contact me at (704) 922-0024.


Johnny H. Denton, PE, PLS
Diamond Engineering, PLLC



Civil Engineering & Surveying
Site & Subdivision Planning
Erosion & Storm Water Control
Water & Sewer Design
Municipal Engineering

440 Old NC 277 Loop Road

Dallas, N.C. 28034

Phone: (704) 922-0024



Diamond Engineering, PLLC

June 17, 2019

Ilonka Aylward
2813 Hinsdale St.
Charlotte, NC 28210

Subject: Evaluation of Potential Impact to 2813 Hinsdale St. by a Proposed Charlotte Mecklenburg Storm Water Drainage Improvements Project


Dear Dr. Aylward,

This correspondence is to document the findings of a review of the proposed plans to replace the storm drainage culvert on Hinsdale Street, adjacent to your property. I have reviewed, in particular, the slope at the southwest corner of the culvert. The slope closest to your residence, is proposed to be 1.5-1. The Slopes at all the other corners of the culvert is proposed to be 2:1. A typical and maintainable maximum slope for soils in the piedmont of North Carolina is 2:1. Slopes steeper than 2:1 are subject to slope failure and erosion due to the inability to obtaining and maintain an adequate vegetative cover. This proposed unstable slope is uncomfortable close to your residence and it is my recommendation that a redesign in this area is warranted. Grading in this area will destroy the existing stable vegetation and structures and will subject the house foundation to blasting and vibration from moving construction equipment.

My recommendation is that the end of the wing wall be rotated toward the creek and away from your residence. This would reduce the cut, reduce the slope, and eliminate the risk to your residence. Because the creek is bending to the left in this location, angling the wingwall away from your residence will also protect the creek bank in this area. This proposed change shouldn't cost any additional money to construct and can be constructed below the 616 contour which will limit the danger to your house and reduce the city's easement cost.

You also indicated that the city contractor is planning on storing materials and equipment on your property during construction. The only possible location for this would be across the creek from your house on the triangular lot of your property bounded by the creek, the road, and your eastern property line. Using this area wouldn't cause a significant disruption to your residence or disturb an area that might erode and cause structural damage to your house. Please review my comments and let me know if you have any additional questions.

If you should have any questions, please contact me at (704) 922-0024.


Johnny H. Denton, PE, PLS
Diamond Engineering, PLLC



Civil Engineering & Surveying
Site & Subdivision Planning
Erosion & Storm Water Control
Water & Sewer Design
Municipal Engineering

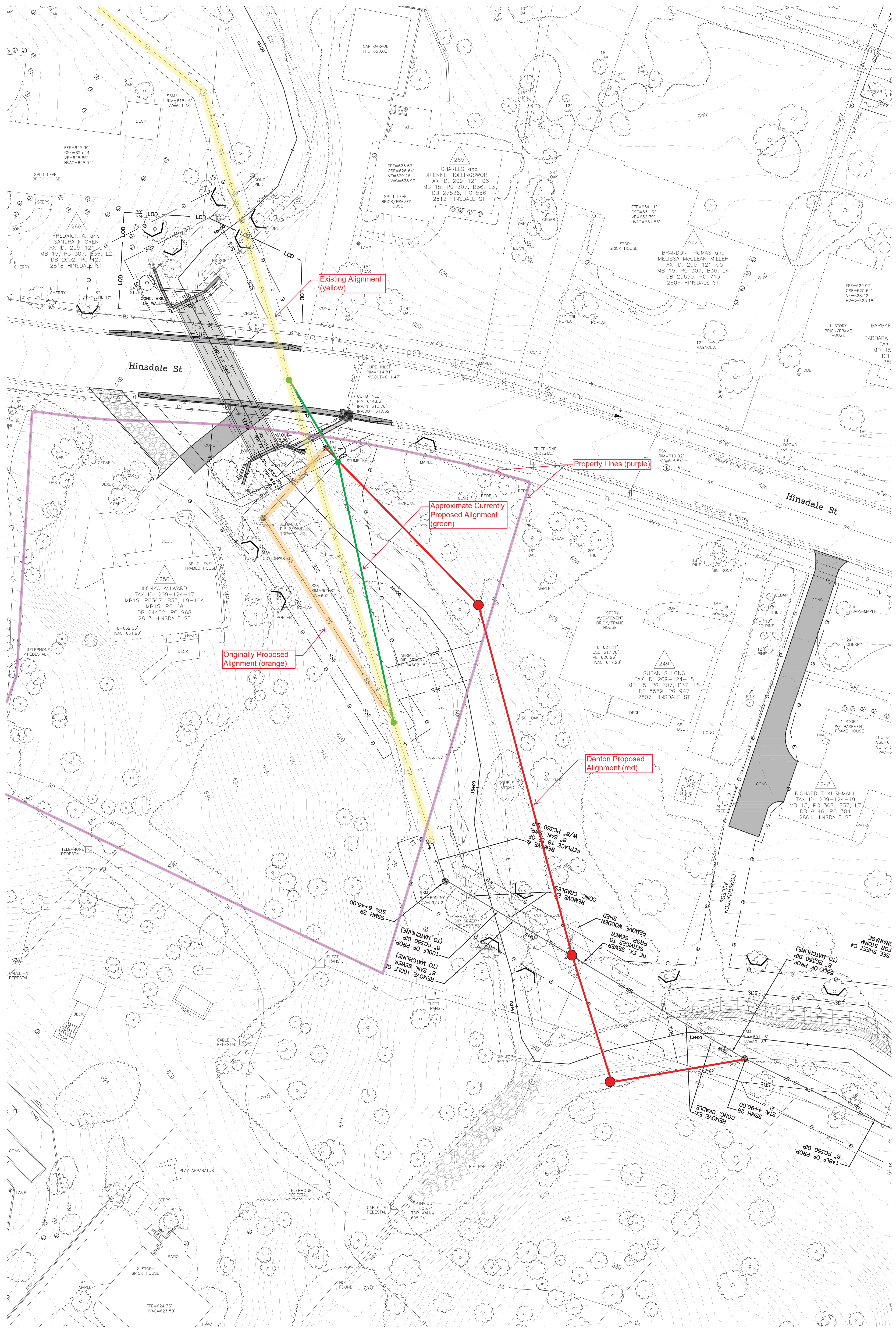
440 Old NC 277 Loop Road


Dallas, N.C. 28034


Phone: (704) 922-0024

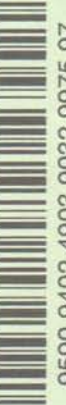
Exhibit Only - Not for Construction


scale: 1 inch = 20 feet



SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature <i>James Bui</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>James Bui</i> C. Date of Delivery <i>12-5-19</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below:</p>	
<p>1. Article Addressed to:</p> <p><i>City of Charlotte</i> <i>Vi Lyles, Mayor</i> <i>600 East 4th Street,</i> <i>Charlotte, North Carolina 28202</i></p>  <p>9590 9402 4903 9032 9976 03</p>		<p>3. Service Type</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Insured Mail (over \$500)</p>	
<p>2. Article Number (Transfer from service label)</p> <p>7019 0160 0000 8867 9981</p>		<p>Domestic Return Receipt</p> <p>PS Form 3811, July 2015 PSN 7530-02-000-9053</p>	

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<p>1. Article Addressed to:</p> <p><i>Charlotte Stormwater Services</i> <i>Kruti Desai, PE,</i> <i>Program Administrator,</i> <i>Division Manager, City of Charlotte</i> <i>600 East Fourth Street,</i> <i>Charlotte, North Carolina, 28202</i></p>  <p>9590 9402 4903 9032 9976 27</p>		<p>3. Service Type</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Insured Mail (over \$500)</p>	
<p>2. Article Number (Transfer from service label)</p> <p>7019 0160 0000 8867 9240</p>		<p>Domestic Return Receipt</p> <p>PS Form 3811, July 2015 PSN 7530-02-000-9053</p>	

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<p>1. Article Addressed to:</p> <p><i>City of Charlotte</i> <i>Marcus D. Jones, City Manager</i> <i>Office of the City Manager</i> <i>600 East 4th Street,</i> <i>Charlotte, North Carolina 28202</i></p>  <p>9590 9402 4903 9032 9975 97</p>		<p>3. Service Type</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Insured Mail (over \$500)</p>	
<p>2. Article Number (Transfer from service label)</p> <p>7019 0160 0000 8867 9974</p>		<p>Domestic Return Receipt</p> <p>PS Form 3811, July 2015 PSN 7530-02-000-9053</p>	

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<p>1. Article Addressed to:</p> <p><i>Michael Davis,</i> <i>City Engineer</i> <i>600 East 4th Street,</i> <i>Charlotte, North Carolina 28202</i></p>  <p>9590 9402 4903 9032 9976 10</p>		<p>3. Service Type</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Insured Mail (over \$500)</p>	
<p>2. Article Number (Transfer from service label)</p> <p>7019 0160 0000 8867 9998</p>		<p>Domestic Return Receipt</p> <p>PS Form 3811, July 2015 PSN 7530-02-000-9053</p>	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>1. Article Addressed to:</p> <p>Andrew R. Wheeler, Administrator U.S. EPA, William Jefferson Clinton Bldg. EPA Headquarters 1200 Pennsylvania Ave. N.W. Washington, D.C. 20460</p>		<p>A. Signature <input checked="" type="checkbox"/> Agent</p> <p>B. Received by (Printed Name) <input type="checkbox"/> Addressee</p> <p>C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>2. Article Number (Transfer from service label)</p> <p>9590 9402 4903 9032 9976 65</p>		<p>3. Service Type</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Insured Mail (over \$500)</p>	
<p>2. Article Number (Transfer from service label)</p> <p>019 0160 0000 8867 9288</p>		<p>Domestic Return Receipt</p> <p>PS Form 3811, July 2015 PSN 7530-02-000-9053</p>	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>1. Article Addressed to:</p> <p>Michael S. Regan, Secretary North Carolina Department of Environmental Quality 17 West Jones Street Raleigh, North Carolina 27603</p>		<p>A. Signature <input checked="" type="checkbox"/> Agent</p> <p>B. Received by (Printed Name) <input type="checkbox"/> Addressee</p> <p>C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>2. Article Number (Transfer from service label)</p> <p>9590 9402 4903 9032 9976 58</p>		<p>3. Service Type</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Insured Mail (over \$500)</p>	
<p>2. Article Number (Transfer from service label)</p> <p>7019 0160 0000 8867 9271</p>		<p>Domestic Return Receipt</p> <p>PS Form 3811, July 2015 PSN 7530-02-000-9053</p>	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>1. Article Addressed to:</p> <p>Mecklenburg County Stormwater Services Dave Canaan, Storm Water Services Director 2145 Suttle Avenue Charlotte, North Carolina 28208</p>		<p>A. Signature <input checked="" type="checkbox"/> Agent</p> <p>B. Received by (Printed Name) <input type="checkbox"/> Addressee</p> <p>C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>2. Article Number (Transfer from service label)</p> <p>9590 9402 4903 9032 9976 34</p>		<p>3. Service Type</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Insured Mail (over \$500)</p>	
<p>2. Article Number (Transfer from service label)</p> <p>019 0160 0000 8867 9257</p>		<p>Domestic Return Receipt</p> <p>PS Form 3811, July 2015 PSN 7530-02-000-9053</p>	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>1. Article Addressed to:</p> <p>Mary Walker, Regional Administrator, Region-IV, 61 Forsyth Street, S.W. EPA Mail Code 9T25 Atlanta, GA 30303-9860</p>		<p>A. Signature <input checked="" type="checkbox"/> Agent</p> <p>B. Received by (Printed Name) <input type="checkbox"/> Addressee</p> <p>C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>2. Article Number (Transfer from service label)</p> <p>9590 9402 4903 9032 9976 41</p>		<p>3. Service Type</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Insured Mail (over \$500)</p>	
<p>2. Article Number (Transfer from service label)</p> <p>019 0160 0000 8867 9264</p>		<p>Domestic Return Receipt</p> <p>PS Form 3811, July 2015 PSN 7530-02-000-9053</p>	

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<p>1. Article Addressed to: Linda Culpepper, Water Resources Director, North Carolina Department of Environmental Quality 217 West Jones Street Raleigh, North Carolina 27603</p>		<p>2. Article Number (Transfer from service label) 9590 9402 4903 9032 9976 72</p>	
<p>3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>		<p>3. Service Type <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>	
<p>2. Article Number (Transfer from service label) 019 0160 0000 8867 9295</p>		<p>Domestic Return Receipt PS Form 3811, July 2015 PSN 7530-02-000-9053</p>	

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<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p> <p>Article Addressed to: Zahid Khan North Carolina Department of Environmental Quality Mooresville Regional Office 610 East Center Avenue, Suite 301 Mooresville, North Carolina 28115</p>		<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee <input type="checkbox"/></p> <p>B. Received by (Printed Name) _____ C. Date of Delivery _____</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>1. Article Addressed to: Zahid Khan North Carolina Department of Environmental Quality Mooresville Regional Office 610 East Center Avenue, Suite 301 Mooresville, North Carolina 28115</p>		<p>2. Article Number (Transfer from service label) 9590 9402 4903 9032 9976 96</p>	
<p>3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>		<p>3. Service Type <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>	
<p>2. Article Number (Transfer from service label) 019 0160 0000 8867 9301</p>		<p>Domestic Return Receipt PS Form 3811, July 2015 PSN 7530-02-000-9053</p>	